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FILE 'BIOSIS, CABA, CAPLUS, EMBASE, LIFESCI, MEDLINE, SCISEARCH,
      USPATFULL, JAPIO' ENTERED AT 13:19:44 ON 25 MAR 2002
 L3
           18266 S SALMONELLA TYPHI
             3872 S SALMONELLA PARATYPHI
 L4
 L5
            1557 S L3 AND L4
             135 S L5 AND VACCINE?
 L6
 L7
             114 DUP REM L6 (21 DUPLICATES REMOVED)
 T.8
               8 S L7 AND ADJUVANT
 L9
              20 S L6 AND ATTENUATED
 => D L9 BIB AB 1-20
 1.9
      ANSWER 1 OF 20 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 AN
      1989:172785 BIOSIS
 DN
      BR36:84026
 TΤ
      CLINICAL EXPERIENCE WITH TYPHOID VACCINE IN THAILAND.
 ΑU
      SARASOMBATH S
      DEP. MICROBIOL., FAC. MED. SIRIRAJ HOSP., MAHIDOL UNIV., BANGKOK 10700,
 CS
      THAILAND.
 SO
      SEAMEO-TROPMED (SOUTHEAST ASIAN MINISTERS OF EDUCATION
      ORGANIZATION-TROPICAL MEDICINE AND PUBLIC HEALTH PROJECT) TECHNICAL
      MEETING OF THE VACCINES FOR TROPICAL DISEASES OF PUBLIC HEALTH IMPORTANCE
      IN SOUTHEAST ASIA, BANGKOK, THAILAND, FEBRUARY 1-4, 1988. SOUTHEAST ASIAN
      J TROP MED PUBLIC HEALTH. (1988) 19 (3), 471-474.
      CODEN: SJTMAK. ISSN: 0125-1562.
FS
      BR; OLD
LA
      English
     ANSWER 2 OF 20 CAPLUS COPYRIGHT 2002 ACS
ΑN
      1999:487376 CAPLUS
      131:126395
DN
ΤI
     Live attenuated_salmonella_vaccines
                                               Gubbels, Elina; De Greve, Henri; Hernalsteens, Jean-Pierre
TN
PΑ
     Vrije Universiteit Brussel, Belg.
SO
     PCT Int. Appl., 78 pp.
     CODEN: PIXXD2
DT
      Patent
LA
     English
FAN.CNT 1
     PATENT NO.
                       KIND DATE
                                             APPLICATION NO. DATE
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                                                              -----
     WO 9937759
                        A2
                             19990729
                                             WO 1999-BE7
                                                              19990122
     WO 9937759
                       А3
                             19991014
         W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
             DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
             TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU,
             TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
             FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
             CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     EP 943681
                       Al 19990922
                                            EP 1998-870019
                                                              19980122
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO
     AU 9921444
                       A1
                             19990809
                                            AU 1999-21444
                                                              19990122
PRAI EP 1998-870019
                             19980122
     EP 1998-870202
                             19980924
     WO 1999-BE7
                             19990122
AB
     The present invention is related to a vaccine for inducing an
     immune response to a Salmonella strain in an animal, including a human,
     characterized in that it comprises a pharmaceutically acceptable carrier
     and a genetically modified Salmonella strain which is in an amt. effective
     to produce an immune response. Said vaccine comprises
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genetically modified wild type DNA, preferably mutated in the spiC, aro, pur, dap, pab, sipC, phoP, phoQ, and/or pagC gene regions. The vaccine of the invention may be used to increase or regulate the humoral, local, and/or cellular response of the immune system against Salmonella strains, other pathogenic agents, or other epitopes. As examples, vaccines comprising mutations to S. enteritidis and S. typhimurium are disclosed.

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ANSWER 3 OF 20 CAPLUS COPYRIGHT 2002 ACS
 L9
 ΑN
      1999:343671 CAPLUS
 DN
      130:351225
 ΤI
      Recombinant vaccines comprising immunogenic attenuated
      bacteria having rpos positive phenotype
 IN
      Curtiss, Roy, III; Nickerson, Cheryl A.
      Washington University, USA
 PA
      PCT Int. Appl., 163 pp.
SO
      CODEN: PIXXD2
DT
      Patent
LA
      English
FAN.CNT 1
      PATENT NO.
                       KIND DATE
                                             APPLICATION NO. DATE
                             -----
                                              -----
PΙ
      WO 9925387
                       A1
                              19990527
                                            WO 1998-US24295 19981113
          W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
              DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,
              NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT,
          UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
              FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
              CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
      US 6024961
                        Α
                              20000215
                                             US 1997-970789
                                                                19971114
     AU 9914595
                        A1
                              19990607
                                             AU 1999-14595
                                                                19981113
     AU 736242
                        В2
                              20010726
     EP 1030690
                        A1
                              20000830
                                              EP 1998-958581
                                                                19981113
          R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
              IE, FI
     JP 2001523649
                        T2
                              20011127
                                             JP 2000-520820
                                                                19981113
PRAI US 1997-970789
                        A2
                              19971114
     WO 1998-US24295
                        W
                              19981113
     Attenuated immunogenic bacteria having an RpoS+ phenotype, in
AB
     particular, Salmonella enterica serotype typhi having an RpoS+ phenotype
     and methods therefor are disclosed. The Salmonella have in addn. to an
     RpoS+ phenotype an inactivating mutation in one or more genes which render
     the microbe attenuated, and a recombinant gene capable of
     expressing a desired protein. The Salmonella are attenuated and
     have high immunogenicity so that they can be used in vaccines
     and as delivery vehicles for genes and gene products. Also disclosed are
     methods for prepg. the vaccine delivery vehicles. Described
     were vaccines contg. the disclosed Salmonella delivery vehicle
     and hepatitis B nucleocapsid pre-S1 pre-S2 particles, interleukin 2,
     sperm-specific antigen ZP-3 (as contraceptive vaccine), NALT,
     BALT, CALT, GALT proteins, and others.
RE.CNT 7
              THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT
L9
     ANSWER 4 OF 20 CAPLUS COPYRIGHT 2002 ACS
ΑN
     1998:794801 CAPLUS
DN
     130:37299
TΙ
     Attenuation of Salmonella typhi for vaccine
     application
IN
     Miller, Samuel I.; Mekalanos, John J.
PΑ
     The General Hospital Corporation, USA; President and Fellows of Harvard
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College

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SO
     U.S., 69 pp., Cont.-in-part of U.S. 5,695,983.
     CODEN: USXXAM
DT
     Patent
LA
     English
FAN.CNT 6
     PATENT NO.
                  KIND DATE
                                         APPLICATION NO. DATE
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                     ____
                           ----<del>-</del>
                                                          -----
                                         US 1995-565861
     US 5843426
                     Α
PΙ
                           19981201
                                                           19951201
     US 5599537
                     Α
                           19970204
                                         US 1993-90526
                                                          19930709
                 A 19971209
A1 19970605
     US 5695983
                                         US 1994-271354
                           19971209
                                                          19940706
     WO 9720033
                                         WO 1996-US19190 19961127
         W: AU, CA, CN, JP, KR, MX, NZ
         RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
     AU 9711441
                      A1 19970619
                                         AU 1997-11441
                                                          19961127
     EP 870011
                      A1
                           19981014
                                          EP 1996-942851
                                                          19961127
         R: BE, CH, DE, FR, GB, IT, LI, LU, MC, IE
PRAI US 1990-629602
                    B2
                           19901218
     US 1993-90526
                      A2
                           19930709
     US 1994-271354 A2
US 1995-565861 A
WO 1996-US19190 W
                           19940706
                           19951201
                           19961127
AB
     The invention features a Salmonella cell for which the virulence is
     attenuated by a deletion of a portion of the PhoQ gene. This
     deletion results in the dysregulation of the genes regulated by the PhoP
     regulon, i.e., the pag and prg loci. These cells may also have a deletion
     of the PhoP gene and a mutation or the arom. amino acid metab. system.
     Such attenuation results in greater phagocytic killing by macrophages.
     Immunization of volunteers with the Salmonella Ty800 cell induced a
     humoral response to capsular antigens.
RE.CNT 32
              THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT
L9
     ANSWER 5 OF 20 CAPLUS COPYRIGHT 2002 ACS
AN
     1997:505737 CAPLUS
DN
     127:107985
     Salmonella vaccines created by deletions in the phoQ and phoP
TI
IN
     Miller, Samuel I.; Mekalanos, John J.
     General Hospital Corporation, USA; President and Fellows of Harvard
PΑ
     College
SO
     PCT Int. Appl., 175 pp. 3
     CODEN: PIXXD2
DT
     Patent
LΑ
     English
FAN.CNT 6
     PATENT NO.
                     KIND DATE
                                         APPLICATION NO. DATE
                          -----
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                                         -----
                                                         _____
    WO 9720033 A1 19970605
PI
                                         WO 1996-US19190 19961127
        W: AU, CA, CN, JP, KR, MX, NZ
        RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
    US 5843426
                    A
                                    US 1995-565861 19951201
                          19981201
    AU 9711441
                     A1
                           19970619
                                         AU 1997-11441
                                                          19961127
                         19981014
                    A1
    EP 870011
                                         EP 1996-942851
                                                        19961127
        R: BE, CH, DE, FR, GB, IT, LI, LU, MC, IE
PRAI US 1995-565861
                    A 19951201
    US 1990-629602
                     В2
                           19901218
    US 1993-90526
                     A2
                           19930709
    US 1994-271354
                    M
W
                      A2
                           19940706
    WO 1996-US19190
                          19961127
    A defined deletion of 956 bp in the contiguous phoP and phoQ genes in
ΑB
    Salmonella typhi Ty3 produced a strain (Ty800) useful as
    a live, attenuated typhoid fever vaccine in human
    volunteers. The phoP/phoQ deletion in the arom. amino acid auxotrophic S.
    typhi 514Ty resulted in strain Ty445 and virulence was further
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attenuated in the aroA/phoP regulon double mutant. A major advantage of Ty800 appears to be the large doses which may be delivered orally without development of bacteremias, suggesting that this strain may be particularly well suited for engineering as a live vector for delivery of heterologous antigens to the gastrointestinal lymphoid tissue. Thus, paqC gene product-antigen AP fusion proteins were produced in Salmonella live vaccines using the environmentally regulated T7 polymerase system and the aerobactin gene promoter of Escherichia coli. DNA fragments regulated by the phoP and phoQ regulon were isolated, sequenced, and shown to encode virulence-assocd. proteins; the 2 fragments encoded

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genes pagD/envE/msqA/envF and prgH/prgI/prgJ/prgK, resp.
L9
     ANSWER 6 OF 20 CAPLUS COPYRIGHT 2002 ACS
AN
     1995:498402 CAPLUS
     122:260944
DN
TΤ
     Attenuation of Salmonella by mutation in virulence-related genes for
     vaccines
TN
     Miller, Samuel I., III; Mekalanos, John J.
PA
     General Hospital Corp., USA; President and Fellows of Harvard College
SO
     PCT Int. Appl., 181 pp.
     CODEN: PIXXD2
DT
     Patent
LA
     English
FAN.CNT 6
     PATENT NO.
                     KIND DATE
                                         APPLICATION NO. DATE
                                          -----
PΙ
     WO 9502048
                     A1 19950119
                                         WO 1994-US7658
                                                           19940707
        W: AU, CA, CN, JP, KR, NZ
        RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
                           19970204
     US 5599537
                     A
                                        US 1993-90526
                                                           19930709
     US 5695983
                      Α
                           19971209
                                          US 1994-271354
                                                           19940706
     AU 9473259
                      A1
                           19950206
                                          AU 1994-73259
                                                           19940707
     AU 694948
                      B2
                           19980806
     EP 717777
                      A1
                          19960626
                                          EP 1994-923374
                                                          19940707
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE
PRAI US 1993-90526 A
                           19930709
     US 1994-271354
                           19940706
                      Α
                     B2
     US 1990-629602
                           19901218
     WO 1994~US7658
                      W
                           19940707
AΒ
     Vaccine strains of Salmonella that do not cause a transient
     bacteremia have their virulence attenuated by a mutation in a
     gene up- or down-regulated by the PhoP gene, e.g. the prg or pag genes,
     and a mutation in a gene for arom. amino acid biosynthesis. A no. of the
     PhoP-regulated genes are also cloned and characterized. A vaccine
     strain of Salmonella typhimurium with a HpaI deletion from the PhoP gene
     was prepd. and characterized. Mice inoculated with 2.3.times.105 or
     2.3.times.106 cfu of the vaccine strain were challenged after 30
     days with 30 LD50 of a virulent S. typhimurium. All but one of the 30
    mice tested survived the challenge. Preliminary tests on human subjects
    are reported.
L9
    ANSWER 7 OF 20 CAPLUS COPYRIGHT 2002 ACS
AN
    1994:215327 CAPLUS
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DN 120:215327

ΤI Bivalent live vaccines against pathogenic intestinal bacteria and their production by recombinant DNA techniques

IN Brahmbhatt, Himanshu; Timmis, Kenneth

PA Gesellschaft fuer Biotechnolgische Forschung mbH (GBF), Germany

SO Ger. Offen., 22 pp. CODEN: GWXXBX

DTPatent

LA German

FAN.CNT 1

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PI DE 4221840 A1 19940105 DE 1992-4221840 19920703
W0 9401562 A1 19940120 W0 1993-EP1715 19930702
W: AU, JP, US
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
AU 9345637 A1 19940131 AU 1993-45637 19930702
PRAI DE 1992-4221840 19920703
W0 1993-EP1715 19930702
AB The microorganisms in the title vaccines express complete
bivalent lipopolysaccharide (LPS) with core lipid A of the microorganisms
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The microorganisms in the title vaccines express complete bivalent lipopolysaccharide (LPS) with core lipid A of the microorganism and heterologous polysaccharide O antigens. Vaccines are typically derived from attenuated Salmonella typhi Ty2la and express O antigens from Shigella dysenteriae 1, Shigella sonnei, Shigella flexneri, Shigella boydii, Vibrio cholerae, Salmonella paratyphi, or enteropathogenic Escherichia coli. Thus, Salmonella typhi Ty2la, bearing the gene for Shigella dysenteriae 1 O antigen, was transformed with a plasmid contg. E. coli K-12 gene rfaL, which encodes the O antigen-core ligase which attaches the O antigen polysaccharide to the LPS core. The transformed bacteria expressed the Shigella dysenteriae 1 O antigen attached to the Salmonella typhi Ty2la LPS core. The method can also be used in V. cholerae vaccines.

- L9 ANSWER 8 OF 20 CAPLUS COPYRIGHT 2002 ACS
- AN 1992:505707 CAPLUS
- DN 117:105707
- ${\tt TI}$  Modified transposons for insertion of cloned sequences into prokaryotic chromosomes
- IN Brey, Robert Newton, III; Deich, Robert Allen
- PA American Cyanamid Co., USA
- SO Eur. Pat. Appl., 35 pp.
- CODEN: EPXXDW
- DT Patent
- LA English
- FAN.CNT 1

TITLE	2111	±						
	PA	TENT NO.		KIND	DATE		APPLICATION NO.	DATE
PI	EΡ	485701		A1	19920520		EP 1991-114668	19910830
		R: AT, E	ΒE,	CH, DE,	DK, ES,	FR,	GB, GR, IT, LI, LU,	NL, SE
	CA	2052324		AA	19920329		CA 1991-2052324	19910926
	FI	9104565		A	19920329		FI 1991-4565	19910927
	NO	9103814		A	19920330		NO 1991-3814	19910927
	ΑU	9184834		A1	19920402		AU 1991-84834	19910927
	ΑU	653362		B2	19940929			,
	JΡ	05076376		A2	19930330		JP 1991-274964	19910927
PRAI	US	1990-59036	4		19900928			
	_		_	_				

AB Transposons that can be used to introduce a cloned sequence into a host chromosome without introduction of the transposition machinery are described. The transposon has a selectable marker and a multicloning site flanked by a pair of inverted repeats used in the integration. The gene for the transposase under the control of an inducible promoter is adjacent to this and lies outside the integrating region. These transposons are useful for a no. of enterobacteria. These constructs were used in bacteriophage .lambda. suicide vectors for Salmonella: although capable of infecting certain strains of Salmonella they cannot replicate and the transposase activity is rapidly lost after integration. Integrants carrying a gene for the B subunit of the Escherichia coli heat-labile enterotoxin were selectable in S. typhimurium and S. typhi. The use of this method to construct a S.typhimurium expressing this gene for use in live vaccines is demonstrated. The gene was stably integrated into the chromosome with stability in vitro much greater than that of the plasmid-borne gene. When mice were infected with this S. typhimurium it could be recovered from 15 days post-infection with 100% of the isolates expressing the gene for toxin subunit.

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L9 ANSWER 9 OF 20 CAPLUS COPYRIGHT 2002 ACS
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AN 1990:510481 CAPLUS

DN 113:110481

TI Fusion proteins of flagellin and heterologous epitopes and attenuated bacteria expressing the chimeric genes as vaccines

- IN Marjarian, William Robert; Stocker, Bruce Arnold Dunbar; Newton, Salete Maria Cardozo
- PA Praxis Biologics, Inc., USA; Leland Stanford Junior University

SO PCT Int. Appl., 137 pp. CODEN: PIXXD2

DT Patent

LA English

FAN. CNT 1

TAN.		TENT I	NO.		KIN	JD.	DATE			ΔD	PLICATIO	N NO	DATE
							DAIL			AF.		, NO.	DAIL
ΡI	WO	8910:		DK	A:		1989 KR,			WO	1989-US	31932	19890505
			•						IT.	LU. I	NL, SE		
	ΑU	8936									1989-36	979	19890505
	ΑU	6370	19		B2	2	1993	0520					
	EP	4195	13		A1	L	1991	0403		EP	1989-90	6507	19890505
	EΡ	4195	13		B3	Ĺ	1995	0426					
		R:	AT,	ΒE,	CH,	DE,	FR,	GB,	ΙT,	LI, I	NL, SE		
	JΡ	04502	2402		$T_2$	2	1992	0507		JP	1989-50	5981	19890505
	JΡ	2793	673		B2	2	1998	0903		•			
	AΤ	12178	32		Ε		1995	0515		ΑT	1989-90	6507	19890505
	DK	9002	533		Α		1991	0104		DK	1990-26	33	19901102
	NO	90048	306		Α		1991	0103		NO	1990-48	106	19901105
	US	61300	082		Α		2000	1010		US	1992-83	37668	19920214
PRAI		1988			Α		1988	0505					
	US	1989	-3484	130	В1	L	1989	0505					
	WO	1989	-US19	932	Α		1989	0505					

AB Fusion proteins of flagellin and an antigenic epitope prepd. by expression of the chimeric gene are used as vaccines. Similarly, the bacterium expressing the chimeric gene is also used in vaccines. Vertebrate hosts can be immunized by administering an invasive, but attenuated, bacterium that is transfected with a recombinant DNA encoding the fusion protein to elicit cellular or humoral immune response. Expression of heterologous parasitic, bacterial, and viral epitopes, e.g.malarial circumsporozoite protein antigen, the B subunit of cholera toxin, the epitope of the CRM197 protein (residues 366-383; a mutant or Diptheria toxin) hepatitis B virus surface antigen, and rotavirus VP7 antigen, with Salmonella flagellin in attenuated Salmonella were demonstrated and their immunogenicity obsd.

- L9 ANSWER 10 OF 20 CAPLUS COPYRIGHT 2002 ACS
- AN 1974:503009 CAPLUS
- DN 81:103009
- TI Effect of antityphoparatyphoid vaccines and diphtheria and tetanus anatoxins on the activity of six liver microsomal glycosyltransferases in a cell-free system
- AU Peschard, Marie J.; Louisot, Pierre
- CS Lab. Biochim., Univ. Lyon, Oullins, Fr.
- SO C. R. Acad. Sci., Ser. D (1974), 278(12), 1637-40 CODEN: CHDDAT
- DT Journal
- LA French
- AB The influence of antityphoparatyphoid vaccine and diphtheria and tetanus anatoxins on the 6 principal hepatic glycosyltransferase activities (N-acetylglucosaminyl transferase, N-acetylgalactosaminyl transferase (I), galactosyl transferase (II), fucosyl transferase, sialyl transferase, and mannosyl transferase (III)) was studied in healthy mice

and mice secondarily infected with an equine Myxovirus. The infection caused hyperactivity of all but III in an in vitro cell-free system using liver microsomes. Injection of TAB vaccine caused a hyperactivity of all the enzymes. Injection of DT anatoxin had little effect on the enzymes except that the activity of III was reduced by half. Injection of DT-TAB had little effect except for increasing the glycosyltransferases responsible for placement of the terminal sugars of carbohydrate chains of glycoproteins (galactose, fucose, and sialic acid). Injection of TAB 48 hr or 96 hr before infection attenuated the postinfection hyperglycosylation reaction normally obsd. with all sugars except mannose. Injection of DT anatoxin 48 or 96 hr before infection did not modify the postinfection hyperglycosylation reaction except for increasing I and II. Injection of DT-TAB caused no postinfection hypergalactosylation but did cause a hypersialylation.

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L9 ANSWER 11 OF 20 MEDLINE
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AN 92016970 MEDLINE

DN 92016970 PubMed ID: 1681365

- TI Oral immunisation against typhoid fever in Indonesia with Ty21a vaccine.
- CM Comment in: Lancet. 1992 Feb 8;339(8789):363-4
- AU Simanjuntak C H; Paleologo F P; Punjabi N H; Darmowigoto R; Soeprawoto; Totosudirjo H; Haryanto P; Suprijanto E; Witham N D; Hoffman S L
- CS Center for Infectious Diseases Research, National Institutes of Health Research and Development, Jakarta, Indonesia.
- SO LANCET, (1991 Oct 26) 338 (8774) 1055-9. Journal code: LOS; 2985213R. ISSN: 0140-6736.
- CY ENGLAND: United Kingdom
- DT (CLINICAL TRIAL)

  Journal; Article; (JOURNAL ARTICLE)

  (RANDOMIZED CONTROLLED TRIAL)
- LA English
- FS Abridged Index Medicus Journals; Priority Journals
- EM 199111
- ED Entered STN: 19920124 Last Updated on STN: 19970203 Entered Medline: 19911121
- AΒ When tested under conditions of moderate transmission of typhoid fever, a liquid formulation of the oral typhoid fever vaccine Ty21a had a protective efficacy of 96% in Egypt, and an enteric coated capsule formulation had an efficacy of 67% in Chile. We compared the two formulations under conditions of intense transmission of typhoid fever in Indonesia in a randomised, double-blind trial. 20,543 subjects (age range 3-44 years) received either three doses of enteric coated capsules containing placebo or live Ty21a, or three doses of lyophilised placebo or live Ty21a reconstituted with phosphate buffer. During 30 months of follow-up, the rate of blood-culture-positive typhoid fever among controls was 810/100,000 per year. Rates of typhoid fever were 379/100,000 per year for subjects who received the liquid formulation of vaccine and 468/100,000 per year for subjects who received enteric coated capsules. The protective efficacies of the liquid and enteric coated formulations were 53% and 42%, respectively. Neither formulation protected against infection with Salmonella paratyphi A. No major side-effects were noted, but the overall incidence of side-effects was greater in the vaccine groups. Under conditions of intense transmission, Ty21a protected against typhoid fever; however, because Ty21a will not protect all individuals, there is a need for additional approaches to prevent the disease.
- L9 ANSWER 12 OF 20 USPATFULL
- AN 2002:48258 USPATFULL
- TI 26 Human secreted proteins
- IN Ruben, Steven M., Olney, MD, UNITED STATES
  Birse, Charles E., North Potomac, MD, UNITED STATES

Duan, Roxanne D., Bethesda, MD, UNITED STATES Soppet, Daniel R., Centreville, VA, UNITED STATES Rosen, Craig A., Laytonsville, MD, UNITED STATES Shi, Yanggu, Gaithersburg, MD, UNITED STATES LaFleur, David W., Washington, DC, UNITED STATES Olsen, Henrik, Gaithersburg, MD, UNITED STATES Ebner, Reinhard, Gaithersburg, MD, UNITED STATES Florence, Kimberly A., Rockville, MD, UNITED STATES Ni, Jian, Rockville, MD, UNITED STATES Young, Paul, Gaithersburg, MD, UNITED STATES PΤ US 2002028449 A1 20020307 US 2000-726643 AΙ A1 20001201 (9) Continuation-in-part of Ser. No. WO 2000-US15187, filed on 2 Jun 2000, RLT UNKNOWN PRAI US 1999-137725P 19990607 (60) DT Utility FS APPLICATION LREP HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850 CLMN Number of Claims: 23 ECL Exemplary Claim: 1 DRWN No Drawings LN.CNT 20287 ΑB The present invention relates to novel human secreted proteins and isolated nucleic acids containing the coding regions of the genes encoding such proteins. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human secreted proteins. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating diseases, disorders, and/or conditions related to these novel human secreted proteins. L9 ANSWER 13 OF 20 USPATFULL ΑN 2002:43671 USPATFULL ΤI 49 human secreted proteins TN Moore, Paul A., Germantown, MD, UNITED STATES Ruben, Steven M., Olney, MD, UNITED STATES Olsen, Henrik S., Gaithersburg, MD, UNITED STATES Shi, Yanggu, Gaithersburg, MD, UNITED STATES Rosen, Craig A., Laytonsville, MD, UNITED STATES Florence, Kimberly A., Rockville, MD, UNITED STATES Soppet, Daniel R., Centreville, VA, UNITED STATES LaFleur, David W., Washington, DC, UNITED STATES Endress, Gregory A., Potomac, MD, UNITED STATES Ebner, Reinhard, Gaithersburg, MD, UNITED STATES Komatsoulis, George, Silver Spring, MD, UNITED STATES Duan, Roxanne D., Bethesda, MD, UNITED STATES PΙ US 2002026040 Α1 20020228 AΙ US 2001-904615 20010716 (9) A1 RLI Continuation of Ser. No. US 2000-739254, filed on 19 Dec 2000, PENDING Continuation of Ser. No. US 2000-511554, filed on 23 Feb 2000, ABANDONED Continuation-in-part of Ser. No. WO 1999-US19330, filed on 24 Aug 1999, UNKNOWN PRAI US 1998-97917P 19980825 (60) US 1998-98634P 19980831 (60) DT Utility FS APPLICATION LREP HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850 CLMN Number of Claims: 23 ECL Exemplary Claim: 1 DRWN No Drawings LN.CNT 19401 CAS INDEXING IS AVAILABLE FOR THIS PATENT. AΒ The present invention relates to novel human secreted proteins and isolated nucleic acids containing the coding regions of the genes

encoding such proteins. Also provided are vectors, host cells,

antibodies, and recombinant methods for producing human secreted proteins. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating diseases, disorders, and/or conditions related to these novel human secreted proteins.

```
L9
     ANSWER 14 OF 20 USPATFULL
       2002:43187 USPATFULL
AN
       Transforming growth factor alpha HIII
ΤI
IN
       Wei, Ying-Fei, Berkeley, CA, UNITED STATES
PΙ
       US 2002025553
                               20020228
                          Α1
       US 2000-726348
ΑT
                          Αl
                               20001201 (9)
       Continuation-in-part of Ser. No. US 1997-778545, filed on 3 Jan 1997,
RLI
       PENDING
PRAI
       US 1996-11136P
                           19960104 (60)
       US 1999-168387P
                           19991202 (60)
DT
       Utility
FS
       APPLICATION
LREP
       HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850
CLMN
       Number of Claims: 25
ECL
       Exemplary Claim: 1
DRWN
       5 Drawing Page(s)
LN.CNT 11810
AB
       The present invention relates to a novel human protein called
       Transforming Growth Factor Alpha III, and isolated polynucleotides
       encoding this protein. Also provided are vectors, host cells,
       antibodies, and recombinant methods for producing this human protein.
       The invention further relates to diagnostic and therapeutic methods
       useful for diagnosing and treating disorders related to this novel human
       protein.
     ANSWER 15 OF 20 USPATFULL
L9
AN-
       2002:22131 USPATFULL
TI
       18 Human secreted proteins
       Shi, Yanggu, Gaithersburg, MD, UNITED STATES
IN
       Young, Paul E., Gaithersburg, MD, UNITED STATES
       Ebner, Reinhard, Gaithersburg, MD, UNITED STATES
       Soppet, Daniel R., Centreville, VA, UNITED STATES
       Ruben, Steven M., Olney, MD, UNITED STATES
PΙ
       US 2002012966
                               20020131
                          A1
ΑI
       US 2001-768826
                          Α1
                               20010125 (9)
RLI
       Continuation-in-part of Ser. No. WO 2000-US22350, filed on 15 Aug 2000,
       UNKNOWN
PRAI
       US 1999-148759P
                           19990816 (60)
DΤ
       Utility
FS
       APPLICATION
LREP
       HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850
CLMN
       Number of Claims: 23
ECL
       Exemplary Claim: 1
       No Drawings
DRWN
LN.CNT 18157
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB
       The present invention relates to novel human secreted proteins and
       isolated nucleic acids containing the coding regions of the genes
       encoding such proteins. Also provided are vectors, host cells,
       antibodies, and recombinant methods for producing human secreted
       proteins. The invention further relates to diagnostic and therapeutic
       methods useful for diagnosing and treating diseases, disorders, and/or
       conditions related to these novel human secreted proteins.
L9
    ANSWER 16 OF 20 USPATFULL
AN
       2002:12261 USPATFULL
TТ
       Uteroglobin-like polynucleotides, polypeptides, and antibodies
TN
       Ni, Jian, Germantown, MD, UNITED STATES
```

Ruben, Steven M., Olney, MD, UNITED STATES

```
20020117
       US 2002006640
PΙ
                          A 1
       US 2001-846258
                          A1
                               20010502 (9)
ΑI
       Continuation-in-part of Ser. No. WO 2000-US30326, filed on 3 Nov 2000,
RLI
       UNKNOWN
       US 1999-163395P
                           19991104 (60)
PRAI
DT
       Utility
FS
       APPLICATION
       HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850
LREP
CLMN
       Number of Claims: 22
ECL
       Exemplary Claim: 1
DRWN
       No Drawings
LN.CNT 12076
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
       The present invention relates to novel human uteroglobin-like
       polypeptides and isolated nucleic acids containing the coding regions of
       the genes encoding such polypeptides. Also provided are vectors, host
       cells, antibodies, and recombinant methods for producing human
       uteroglobin-like polypeptides. The invention further relates to
       diagnostic and therapeutic methods useful for diagnosing and treating
       disorders related to these novel human uteroglobin-like polypeptides.
L9
     ANSWER 17 OF 20 USPATFULL
ΆN
       2002:8489 USPATFULL
TI
       Retinoid receptor interacting polynucleotides, polypeptides, and
       antibodies
IN
       Shi, Yanggu, Gaithersburg, MD, UNITED STATES
       Ruben, Steven M., Olney, MD, UNITED STATES
PΙ
       US 2002004489
                          A1
                               20020110
ΑI
       US 2001-788600
                          A1
                               20010221 (9)
       Continuation-in-part of Ser. No. WO 2000-US22351, filed on 15 Aug 2000,
RLI
       UNKNOWN
                           19990816 (60)
PRAI
       US 1999-148757P
       US 2000-189026P
                           20000314 (60)
DT
       Utility
FS
       APPLICATION
       HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850
LREP
CLMN
       Number of Claims: 22
ECL
       Exemplary Claim: 1
DRWN
       No Drawings
LN.CNT 11257
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
       The present invention relates to novel human RIP polypeptides and
AΒ
       isolated nucleic acids containing the coding regions of the genes
       encoding such polypeptides. Also provided are vectors, host cells,
       antibodies, and recombinant methods for producing human RIP
       polypeptides. The invention further relates to diagnostic and
       therapeutic methods useful for diagnosing and treating disorders related
       to these novel human RIP polypeptides.
L9
    ANSWER 18 OF 20 USPATFULL
AN
       2001:155766 USPATFULL
TI
       49 human secreted proteins
IN
       Moore, Paul A., Germantown, MD, United States
       Ruben, Steven M., Oley, MD, United States
       Olsen, Henrik S., Gaithersburg, MD, United States
       Shi, Yanggu, Gaithersburg, MD, United States
       Rosen, Craig A., Laytonsville, MD, United States
       Florence, Kimberly A., Rockville, MD, United States
       Soppet, Daniel R., Centreville, VA, United States
       Lafleur, David W., Washington, DC, United States
       Endress, Gregory A., Potomac, MD, United States
       Ebner, Reinhard, Gaithersburg, MD, United States
       Komatsoulis, George, Silver Spring, MD, United States
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Duan, Roxanne D., Bethesda, MD, United States

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20010913
       US 2001021700
                          Α1
PΙ
       US 2000-739254
                               20001219 (9)
AΙ
                          A1
       Continuation of Ser. No. US 2000-511554, filed on 23 Feb 2000, ABANDONED
RT.T
       Continuation-in-part of Ser. No. WO 1999-US19330, filed on 24 Aug 1999,
       UNKNOWN
       US 1998-97917P
                           19980825 (60)
PRAI
       US 1998-98634P
                           19980831 (60)
DT
       Utility
FS
       APPLICATION
       HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850
LREP
CLMN
       Number of Claims: 23
ECL
       Exemplary Claim: 1
DRWN
       No Drawings
LN.CNT 15462
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
       The present invention relates to novel human secreted proteins and
       isolated nucleic acids containing the coding regions of the genes
       encoding such proteins. Also provided are vectors, host cells,
       antibodies, and recombinant methods for producing human secreted
       proteins. The invention further relates to diagnostic and therapeutic
       methods useful for diagnosing and treating diseases, disorders, and/or
       conditions related to these novel human secreted proteins.
     ANSWER 19 OF 20 USPATFULL
L9
ΑN
       1998:150449 USPATFULL
TΤ
       Salmonella vaccines
IN
       Miller, Samuel I., Seattle, WA, United States
       Mekalanos, John J., Cambridge, MA, United States
PΑ
       The General Hospital Corporation, Boston, MS, United States (U.S.
       corporation)
       President and Fellows of Harvard College, Cambridge, MS, United States
       (U.S. corporation)
PΙ
       US 5843426
                               19981201
                               19951201 (8)
ΑI
       US 1995-565861
       Continuation-in-part of Ser. No. US 1994-271354, filed on 6 Jul 1994,
RLI
       now patented, Pat. No. US 5695983 which is a continuation-in-part of
       Ser. No. US 1993-90526, filed on 9 Jul 1993, now patented, Pat. No. US
       5599537 which is a continuation-in-part of Ser. No. US 1990-629602,
       filed on 18 Dec 1990, now abandoned
DT
       Utility
FS
       Granted
       Primary Examiner: LeGuvader, John L.; Assistant Examiner: Brusca, John
EXNAM
LREP
       Fish & Richardson P.C.
CLMN
       Number of Claims: 1
ECL
       Exemplary Claim: 1
DRWN
       25 Drawing Figure(s); 20 Drawing Page(s)
LN.CNT 4505
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB
       The invention features a Salmonella cell the virulence of which is
       attenuated by a deletion of a portion of the PhoQ gene and
       Salmonella cells having a deletion of the PhoQ gene and a deletion of
       the PhoP gene. The invention also features vaccines comprising
       such bacteria.
L9
     ANSWER 20 OF 20 USPATFULL
AN
       97:115147 USPATFULL
ΤI
       Salmonella vaccines
       Miller, Samuel I., Brookline, MA, United States
IN
       Mekalanos, John J., Cambridge, MA, United States
PA
       The General Hospital Corporation, Boston, MA, United States (U.S.
       corporation)
       President and Fellows of Harvard College, Cambridge, MA, United States
       (U.S. corporation)
```

PI US 5695983 19971209 AI US 1994-271354 19940706 (8)

RLI Continuation-in-part of Ser. No. US 1993-90526, filed on 9 Jul 1993, now patented, Pat. No. US 5599537 which is a continuation-in-part of Ser. No. US 1990-629602, filed on 18 Dec 1990, now abandoned

DT Utility FS Granted

EXNAM Primary Examiner: Ketter, James; Assistant Examiner: Brusca, John S.

LREP Fish & Richardson P.C.
CLMN Number of Claims: 5
ECL Exemplary Claim: 1

DRWN 25 Drawing Figure(s); 20 Drawing Page(s)

LN.CNT 3780

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A bacterial cell the virulence of which is attentuated by a first mutation in a PhoP regulon and a second mutation in an aromatic amino acid synthetic gene and bacterial cells the virulence of which is attenuated by a mutation in one or more PhoP-activated genes or one or more PhoP-repressed genes.

=>

FIL	E 'BIOSIS,	CABA, CAPLUS, EMBASE, LIFESCI, MEDLINE, SCISEARCH,
	USPATFULL,	JAPIO' ENTERED AT 13:19:44 ON 25 MAR 2002
L3		S SALMONELLA TYPHI
L4	3872	S SALMONELLA PARATYPHI
L5	1557	S L3 AND L4
L6	135	S L5 AND VACCINE?
L7	114	DUP REM L6 (21 DUPLICATES REMOVED)
L8		S L7 AND ADJUVANT
L9	20	S L6 AND ATTENUATED

10 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

1993:252767 CAPLUS

DOCUMENT NUMBER:

118:252767

TITLE:

Live attenuated salmonellae: Oral vaccines

for salmonellosis and combined vaccines carrying

heterologous antigens

AUTHOR(S):

Hormaeche, Carlos E.; Dougan, Gordon; Chatfield, Steve

CORPORATE SOURCE:

Div. Microbiol. Parasitol., Dep. Pathol., Cambridge,

CB2 1QP, UK

SOURCE:

FEMS Symp. (1992), 63(Release of Genetically Modified

Microorganisms--REGEM 2), 71-83 CODEN: FEMSDW; ISSN: 0163-9188

DOCUMENT TYPE:

Journal; General Review

LANGUAGE:

English

L10 ANSWER 2 OF 6

EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.

ACCESSION NUMBER:

91278636 EMBASE

DOCUMENT NUMBER:

1991278636

TITLE:

Live attenuated salmonella vaccines and

their potential as oral combined vaccines carrying

heterologous antigens.

AUTHOR:

Hormaeche C.E.

CORPORATE SOURCE:

Div. Microbiology/Parasitology, Department of Pathology,

Tennis Court Road, Cambridge CB2 1LP, United Kingdom

SOURCE:

Journal of Immunological Methods, (1991) 142/1 (113-120). ISSN: 0022-1759 CODEN: JIMMBG

COUNTRY:

Netherlands

DOCUMENT TYPE:

Journal; Article

FILE SEGMENT:.

004 Microbiology

026

Immunology, Serology and Transplantation 037 - Drug Literature Index 

LANGUAGE: SUMMARY LANGUAGE:

English English

L10 ANSWER 3 OF 6 LIFESCI

COPYRIGHT 2002 CSA

ACCESSION NUMBER:

94:28626 LIFESCI

TITLE:

Live attenuated Salmonella vaccines and

their potential as oral combined vaccines carrying

heterologous antigens

AUTHOR:

Hormaeche, C.E.

CORPORATE SOURCE:

Div. Microbiol. and Parasitol., Dep. Pathol., Tennis Court

Rd., Cambridge CB2 1LP, UK

SOURCE:

J. IMMUNOL. METHODS, (1991) vol. 142, no. 1, pp. 113-120.

ISSN: 0022-1759.

DOCUMENT TYPE:

FILE SEGMENT:

F; J

LANGUAGE:

English

Journal

SUMMARY LANGUAGE:

English

L10 ANSWER 4 OF 6

MEDLINE

ACCESSION NUMBER:

92013164 MEDLINE

DOCUMENT NUMBER:

92013164 PubMed ID: 1919015

TITLE:

Live attenuated Salmonella vaccines and

their potential as oral combined vaccines carrying

heterologous antigens.

AUTHOR:

Hormaeche C E

Netherlands

CORPORATE SOURCE:

Department of Pathology, Cambridge, U.K.

SOURCE:

JOURNAL OF IMMUNOLOGICAL METHODS, (1991 Aug 28) 142 (1)

113-20. Ref: 92

Journal code: IFE; 1305440. ISSN: 0022-1759.

PUB. COUNTRY:

Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

(REVIEW, ACADEMIC)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

199111

ENTRY DATE:

Entered STN: 19920124

Last Updated on STN: 19920124 Entered Medline: 19911112

L10 ANSWER 5 OF 6 SCISEARCH COPYRIGHT 2002 ISI (R)

ACCESSION NUMBER: 91:502382 SCISEARCH

THE GENUINE ARTICLE: GD761

TITLE:

LIVE ATTENUATED SALMONELLA VACCINES

AND THEIR POTENTIAL AS ORAL COMBINED VACCINES CARRYING

HETEROLOGOUS ANTIGENS

AUTHOR: CORPORATE SOURCE: HORMAECHE C E (Reprint) DEPT PATHOL, DIV MICROBIOL & PARASITOL, TENNIS COURT RD,

CAMBRIDGE CB2 1LP, ENGLAND (Reprint)

COUNTRY OF AUTHOR:

ENGLAND

SOURCE:

JOURNAL OF IMMUNOLOGICAL METHODS, (1991) Vol. 142, No. 1,

pp. 113-120.

DOCUMENT TYPE:

Article; Journal

FILE SEGMENT:

LIFE

LANGUAGE:

ENGLISH

REFERENCE COUNT:

92

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L10 ANSWER 6 OF 6 USPATFULL

ACCESSION NUMBER:

2001:155455 USPATFULL

TITLE:

Salmonella vaccine

INVENTOR(S):

Nuijten, Petrus Johannes Maria, Boxmeer, Netherlands

Witvliet, Maarten Hendrik, Oostrum, Netherlands

NUMBER KIND DATE -----US 2001021386 A1 20010913 PATENT INFORMATION: US 2000-749025 A1 20001227 (9)

APPLICATION INFO.:

NUMBER DATE \_\_\_\_\_

PRIORITY INFORMATION: EP 1999-204564 19991228

DOCUMENT TYPE:

Utility

FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE: William M. Blackstone, Akzo nobel Patent Department, Suite 206, 1300 Piccard Drive, Rockville, MD, 20850

NUMBER OF CLAIMS: 13

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS:

3 Drawing Page(s)

LINE COUNT:

745

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

- L10 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2002 ACS
- AB A review with 114 refs. Live attenuated salmonellae are protective, and are candidate vaccines against invasive Salmonella infections in man and animals. Different attenuating mutations have been described, and more than one can be incorporated in a vaccine for added safety. Combined Salmonella vaccines express target carbohydrate and protein antigens or epitopes from viruses, bacteria and eukaryotic parasites, either within or on the surface of the cell, as capsules, fimbriae, or in the flagellin. Humoral, secretory, and cellular responses to the recombinant antigens have been demonstrated. Exptl. protection against diseases including streptococcal infection, tetanus, influenza and malaria has been obtained, and such hybrid strains may offer important advances in immunization against infectious diseases.
- AN 1993:252767 CAPLUS
- DN 118:252767
- TI Live attenuated **salmonellae**: Oral vaccines for salmonellosis and combined vaccines carrying heterologous antigens
- AU Hormaeche, Carlos E.; Dougan, Gordon; Chatfield, Steve N.
- CS Div. Microbiol. Parasitol., Dep. Pathol., Cambridge, CB2 1QP, UK
- SO FEMS Symp. (1992), 63(Release of Genetically Modified Microorganisms--REGEM 2), 71-83 CODEN: FEMSDW; ISSN: 0163-9188
- DT Journal; General Review
- LA English
- L10 ANSWER 2 OF 6 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.
- AB Live attenuated salmonellae are protective, and are candidate vaccines against invasive salmonella infections in man and animals. Different attenuating mutations have been described, and more than one can be incorporated in a vaccine for added safety.

  Combined-salmonella-vaccines-express-target-carbohydrate and protein antigens or epitopes from viruses, bacteria and eukaryotic paprasites, either within or on the surface of the cell, as capsules, fimbriae, or in the flagellin. Humoral, secretory and cellular responses to the recombinant antigens has been demonstrated. Experimental protection against diseases including streptococcal infection, tetanus, influenza and malaria has been obtained.
- AN 91278636 EMBASE
- DN 1991278636
- TI Live attenuated salmonella vaccines and their potential as oral combined vaccines carrying heterologous antigens.
- AU Hormaeche C.E.
- CS Div. Microbiology/Parasitology, Department of Pathology, Tennis Court Road, Cambridge CB2 1LP, United Kingdom
- SO Journal of Immunological Methods, (1991) 142/1 (113-120). ISSN: 0022-1759 CODEN: JIMMBG
- CY Netherlands
- DT Journal; Article
- FS 004 Microbiology
  - 026 Immunology, Serology and Transplantation
  - 037 Drug Literature Index
- LA English
- SL English
- L10 ANSWER 3 OF 6 LIFESCI COPYRIGHT 2002 CSA
- AB Live attenuated salmonellae are protective, and are candidate vaccines against invasive Salmonella infections in man and animals. Different attenuating mutations have been described, and more than one can be incorporated in a vaccine for added safety. Combined Salmonella vaccines express target carbohydrate and protein antigens or epitopes from viruses, bacteria and eukaryotic parasites, either within or on the surface of the cell, as capsules, fimbriae, or in the flagellin. Humoral, secretory and

cellular responses to the recombinant antigens has been demonstrated. Experimental protection against disease including streptococcal infection, tetanus, influenza and malaria has been obtained.

AN 94:28626 LIFESCI

TI Live attenuated Salmonella vaccines and their potential as oral combined vaccines carrying heterologous antigens AU Hormaeche, C.E.

CS Div. Microbiol. and Parasitol., Dep. Pathol., Tennis Court Rd., Cambridge CB2 1LP, UK

SO J. IMMUNOL. METHODS, (1991) vol. 142, no. 1, pp. 113-120. ISSN: 0022-1759.

DT Journal

FS F; J

LA English

SL English

L10 ANSWER 4 OF 6 MEDLINE

AB Live attenuated salmonellae are protective, and are candidate vaccines against invasive salmonella infections in man and animals. Different attenuating mutations have been described, and more than one can be incorporated in a vaccine for added safety. Combined salmonella vaccines express target carbohydrate and protein antigens or epitopes from viruses, bacteria and eukaryotic parasites, either within or on the surface of the cell, as capsules, fimbriae, or in the flagellin. Humoral, secretory and cellular responses to the recombinant antigens has been demonstrated. Experimental protection against diseases including streptococcal infection, tetanus, influenza and malaria has been obtained.

AN 92013164 MEDLINE

DN 92013164 PubMed ID: 1919015

TI Live attenuated Salmonella vaccines and their potential as oral combined vaccines carrying heterologous antigens.

AU Hormaeche C E

CS Department of Pathology, Cambridge, U.K.

SO JOURNAL OF IMMUNOLOGICAL METHODS, (1991 Aug 28) 142 (1) 113-20. Ref: 92 Journal code: IFE; 1305440. ISSN: 0022-1759.

CY Netherlands

DT Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, ACADEMIC)

LA English

FS Priority Journals

EM 199111

ED Entered STN: 19920124

Last Updated on STN: 19920124 Entered Medline: 19911112

L10 ANSWER 5 OF 6 SCISEARCH COPYRIGHT 2002 ISI (R)

AB Live attenuated salmonellae are protective, and are candidate vaccines against invasive salmonella infections in man and animals. Different attenuating mutations have been described, and more than one can be incorporated in a vaccine for added safety. Combined salmonella vaccines express target carbohydrate and protein antigens or epitopes from viruses, bacteria and eukaryotic parasites, either within or on the surface of the cell, as capsules, fimbriae, or in the flagellin. Humoral, secretory and cellular responses to the recombinant antigens has been demonstrated. Experimental protection against diseases including streptococcal infection, tetanus, influenza and malaria has been obtained.

AN 91:502382 SCISEARCH

GA The Genuine Article (R) Number: GD761

TI LIVE ATTENUATED **SALMONELLA VACCINES** AND THEIR POTENTIAL AS ORAL COMBINED VACCINES CARRYING HETEROLOGOUS ANTIGENS

AU HORMAECHE C E (Reprint)

```
DEPT PATHOL, DIV MICROBIOL & PARASITOL, TENNIS COURT RD, CAMBRIDGE CB2
CS
     1LP, ENGLAND (Reprint)
CYA ENGLAND
     JOURNAL OF IMMUNOLOGICAL METHODS, (1991) Vol. 142, No. 1, pp. 113-120.
SO
DT
     Article; Journal
FS
     LIFE
LA
     ENGLISH
REC
     Reference Count: 92
     *ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS*
L10 ANSWER 6 OF 6 USPATFULL
AB
       The present invention relates to Salmonella bacteria for use
       as a vaccine. The invention also relates to vaccines based thereon that
       are useful for the prevention of microbial pathogenesis. Further, the
       invention relates to the use of such bacteria or the manufacture of such
       vaccines. Finally, the invention relates to methods for the preparation
       of such vaccines.
ΑN
       2001:155455 USPATFULL
ΤI
       Salmonella vaccine
IN
      'Nuijten, Petrus Johannes Maria, Boxmeer, Netherlands
       Witvliet, Maarten Hendrik, Oostrum, Netherlands
PΙ
       US 2001021386
                          A1
                               20010913
                               20001227 (9)
ΑI
       US 2000-749025
                          A1
PRAI
       EP 1999-204564
                          19991228
DT
       Utility
       APPLICATION
FS
LREP
       William M. Blackstone, Akzo nobel Patent Department, Suite 206, 1300
       Piccard Drive, Rockville, MD, 20850
CLMN
       Number of Claims: 13
ECL
       Exemplary Claim: 1
```

=>

DRWN

LN.CNT 745

3 Drawing Page(s)

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 1 OF 21 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 1994:226104 BIOSIS DOCUMENT NUMBER: PREV199497239104

Hypervariable region IV of Salmonella gene fliC-d TITLE:

encodes a dominant surface epitope and a stabilizing factor

for functional flagella.

He, Xiao-Song; Rivkina, Marianne; Stocker, Bruce A. D.; AUTHOR(S):

Robinson, William S. (1)

CORPORATE SOURCE: (1) Dep. Med., Stanford Univ. Sch. Med., Stanford, CA 94305

USA

Journal of Bacteriology, (1994) Vol. 176, No. 8, pp. SOURCE:

2406-2414.

ISSN: 0021-9193.

DOCUMENT TYPE: LANGUAGE:

INVENTOR(S):

Article English

ANSWER 2 OF 21 USPATFULL

2002:19176 USPATFULL ACCESSION NUMBER:

TITLE:

PATENT ASSIGNEE(S):

Method of detecting shigella and shigella mxiM DNA Schuch, Raymond, Washington, DC, United States Sandlin, Robin C., Columbia, MD, United States

Maurelli, Anthony T., Silver Spring, MD, United States The Henry M. Jackson Foundation for the Advancement of Military Medicine, Rockville, MD, United States (U.S.

corporation)

NUMBER KIND DATE -----US 6342352 B1 20020129 US 1999-296670 19990422 PATENT INFORMATION: APPLICATION INFO.: 19990422 (9)

NUMBER DATE

-----

PRIORITY INFORMATION: US 1998-82944P 19980424 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: GRANTED

PRIMARY EXAMINER: Devi, S.

LEGAL REPRESENTATIVE: Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P.

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 9 Drawing Figure(s); 8 Drawing Page(s)

LINE COUNT: 2019

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

1.7 ANSWER 3 OF 21 USPATFULL

ACCESSION NUMBER: 2001:155455 USPATFULL TITLE: Salmonella vaccine

INVENTOR(S): Nuijten, Petrus Johannes Maria, Boxmeer, Netherlands

Witvliet, Maarten Hendrik, Oostrum, Netherlands

NUMBER KIND DATE -----US 2001021386 A1 PATENT INFORMATION: 20010913 APPLICATION INFO.: US 2000-749025 A1 20001227 (9)

NUMBER DATE -----PRIORITY INFORMATION:

EP 1999-204564 DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: William M. Blackstone, Akzo nobel Patent Department,

Suite 206, 1300 Piccard Drive, Rockville, MD, 20850

19991228

NUMBER OF CLAIMS: 13 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS:

3 Drawing Page(s)

LINE COUNT:

745

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 4 OF 21 USPATFULL

ACCESSION NUMBER:

2001:40233 USPATFULL

TITLE:

66 kDa antigen from Borrelia Bergstom, Sven, Umea, Sweden

INVENTOR(S): Barbour, Alan George, Irvine, CA, United States

PATENT ASSIGNEE(S): Symbicom Aktiebolag, Umea, Sweden (non-U.S.

corporation)

NUMBER KIND DATE -----US 6204018 WO 9535379 PATENT INFORMATION: B1 20010320 19951228 US 1997-750494 APPLICATION INFO.: 19970612 WO 1995-US7665 19950619 19970612 PCT 371 date 19970612 PCT 102(e) date

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1994-262220, filed

on 20 Jun 1994, now patented, Pat. No. US 6054296

DOCUMENT TYPE:

Utility Granted

FILE SEGMENT:

PRIMARY EXAMINER: Minnifield, Nita M.

LEGAL REPRESENTATIVE: Frommer Lawrence & Haug LLP, Frommer, William S.,

Kolawski, Thomas J.

NUMBER OF CLAIMS:

20 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS:

5 Drawing Figure(s); 5 Drawing Page(s)

LINE COUNT:

2159

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 5 OF 21 USPATFULL

ACCESSION NUMBER:

2001:25436 USPATFULL

TITLE:

Attenuated mutants of salmonella which constitutively express the Vi antigen

INVENTOR(S):

Noriega, Fernando R., Baltimore, MD, United States Sztein, Marcelo B., Columbia, MD, United States Levine, Myron M., Columbia, MD, United States

PATENT ASSIGNEE(S):

University of Maryland, Baltimore, Baltimore, MD,

United States (U.S. corporation)

NUMBER KIND DATE -----US 6190669 B1 20010220 PATENT INFORMATION: APPLICATION INFO.: 19980513 (9) US 1998-76761 DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Duffy, Patricia A.

LEGAL REPRESENTATIVE: Sughrue, Mion, Zinn Macpeak & Seas. PLLC

NUMBER OF CLAIMS: 23 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS:

17 Drawing Figure(s); 15 Drawing Page(s)

LINE COUNT: 1873

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 6 OF 21 USPATFULL L7

ACCESSION NUMBER:

2001:25429 USPATFULL

TITLE:

Materials and methods relating to the attachment and

display of substances on cell surfaces

INVENTOR(S):

Steidler, Lothar, Ghent, Belgium

Remaut, Erik, Ghent, Belgium

Wells, Jeremy Mark, Cambridge, United Kingdom

Vlaams Interuniversitair Instituut voor Biotechnologie PATENT ASSIGNEE(S):

(VIB) vzw. Zwijnaarde, Belgium (non-U.S. corporation)

NUMBER KIND DATE \_\_\_\_\_\_

PATENT INFORMATION: APPLICATION INFO.:

US 6190662 B1 US 1998-36609 B1 20010220 19980306 (9)

RELATED APPLN. INFO.:

Continuation of Ser. No. WO 1996-GB2195, filed on 6 Sep

1996

NUMBER DATE \_\_\_\_\_

PRIORITY INFORMATION:

GB 1995-18323 19950907

DOCUMENT TYPE:

Utility Granted

FILE SEGMENT:

Navarro, Albert

PRIMARY EXAMINER: LEGAL REPRESENTATIVE: Pennie & Edmonds LLP

NUMBER OF CLAIMS: 24

EXEMPLARY CLAIM: NUMBER OF DRAWINGS: 1 10 Drawing Figure(s); 7 Drawing Page(s)

964 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 7 OF 21 USPATFULL

ACCESSION NUMBER: 2000:134749 USPATFULL

TITLE:

Recombinant flagellin vaccines

INVENTOR(S):

Majarian, William R., Mt. Royal, NJ, United States Stocker, Bruce A. D., Palo Alto, CA, United States Newton, Salete M. C., Mountain View, CA, United States

PATENT ASSIGNEE(S):

American Cyanamid Company, Madison, NJ, United States

(U.S. corporation)

The Board of Trustees of the Leland Stanford Junior

University, Stanford, CA, United States (U.S.

corporation)

NUMBER KIND DATE ----------PATENT INFORMATION: US 6130082 20001010 APPLICATION INFO.: US 1992-837668 19920214 (7)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1989-348430, filed on 5 May 1989, now abandoned which is a continuation-in-part of

Ser. No. US 1988-190570, filed on 5 May 1988, now

abandoned Utility

DOCUMENT TYPE: FILE SEGMENT:

Granted

PRIMARY EXAMINER:

Mosher, Mary E.

LEGAL REPRESENTATIVE: Hamilton, Brook, Smith & Reynolds, P.C.

NUMBER OF CLAIMS:

3

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS:

15 Drawing Figure(s); 17 Drawing Page(s)

LINE COUNT:

2404

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 8 OF 21 USPATFULL

ACCESSION NUMBER:

2000:91741 USPATFULL

TITLE:

66 kDa antigen from Borrelia Bergstrom, Sven, Umea, Sweden

INVENTOR(S):

Barbour, Alan George, San Antonio, TX, United States

Symbicom AB, Umea, Sweden (non-U.S. corporation) PATENT ASSIGNEE(S):

NUMBER KIND DATE \_\_\_\_\_\_

PATENT INFORMATION:

US 6090586 20000718

APPLICATION INFO.:

US 1995-468878

19950606 (8)

RELATED APPLN. INFO.: Division of Ser. No. US 1994-262220, filed on 20 Jun

1994 which is a continuation-in-part of Ser. No. US 1993-79601, filed on 22 Jun 1993, now patented, Pat. No. US 5523089 which is a continuation of Ser. No. US 1992-924798, filed on 6 Aug 1992, now abandoned which is a continuation of Ser. No. US 1989-422881, filed on

18 Oct 1989, now abandoned

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Housel, James C.

ASSISTANT EXAMINER: Ryan, V.

LEGAL REPRESENTATIVE: Frommer, Esq., William S., Kowalski, Esq., Thomas

J. Frommer Lawrence & Haug LLP

NUMBER OF CLAIMS: 21 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 11 Drawing Figure(s); 5 Drawing Page(s)

LINE COUNT: 3064

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 9 OF 21 USPATFULL

ACCESSION NUMBER: 2000:67433 USPATFULL

TITLE: 66 kDa antigen from Borrelia INVENTOR(S): Bergstrom, Sven, Umea, Sweden

Barbour, Alan George, San Antonio, TX, United States

PATENT ASSIGNEE(S): Symbicom AB, Ulmea, Sweden (non-U.S. corporation)

RELATED APPLN. INFO.: Division of Ser. No. US 1994-262220, filed on 20 Jun 1994 which is a continuation-in-part of Ser. No. US 1993-79601, filed on 22 Jun 1993, now patented, Pat. No. US 5523089 which is a continuation of Ser. No. US

No. US 5523089 which is a continuation of Ser. No. US 1992-924798, filed on 6 Aug 1992, now abandoned which is a continuation of Ser. No. US 1989-422881, filed on

18 Oct 1989, now abandoned

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Housel, James C.

ASSISTANT EXAMINER: Ryan, V.

LEGAL REPRESENTATIVE: Frommer, Esq., William S., Kowalski, Esq., Thomas

J. Frommer Lawerence & Haug LLP

NUMBER OF CLAIMS: 16 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 11 Drawing Figure(s); 5 Drawing Page(s)

LINE COUNT: 3138

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 10 OF 21 USPATFULL

ACCESSION NUMBER: 2000:50546 USPATFULL

TITLE: 66 kDa antigen from Borrelia INVENTOR(S): Bergstrom, Sven, Umea, Sweden

Barbour, Alan George, San Antonio, TX, United States

PATENT ASSIGNEE(S): Symbicom AB, Umea, Sweden (non-U.S. corporation)

PATENT INFORMATION: US 6054296 20000425 APPLICATION INFO.: US 1994-262220 19940620 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1993-79601, filed on 22 Jun 1993, now patented, Pat. No. US 5523089 which is a continuation of Ser. No. US 1992-924798, filed on

6 Aug 1992, now abandoned which is a continuation of

Ser. No. US 1989-422881, filed on 18 Oct 1989, now abandoned

NUMBER DATE -**---**PRIORITY INFORMATION: DK 1988-5902 19881024

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Housel, James C.

ASSISTANT EXAMINER: Ryan, V.

LEGAL REPRESENTATIVE: Frommer, Esq., William S., Kowalski, Esq., Thomas

J. Frommer Lawrence & Haug LLP

NUMBER OF CLAIMS: 32 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 11 Drawing Figure(s); 5 Drawing Page(s)

LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 11 OF 21 USPATFULL

1999:27448 USPATFULL ACCESSION NUMBER:

TITLE: Methods and compositions for the preparation of

recombinant Trichomonas vaginalis proteins and peptides

INVENTOR(S): Alderete, John F., San Antonio, TX, United States

PATENT ASSIGNEE(S): Board of Regents, The University of Texas System,

Austin, TX, United States (U.S. corporation)

NUMBER KIND DATE -----

PATENT INFORMATION: US 5876985 19990302 APPLICATION INFO.: US 1994-259966 19940614 (8)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1991-692382, filed on 25

Apr 1991, now abandoned

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Patterson, Jr., Charles L. ASSISTANT EXAMINER: Moore, William W. LEGAL REPRESENTATIVE: Arnold, White & Durkee

NUMBER OF CLAIMS: 21

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 18 Drawing Figure(s); 12 Drawing Page(s)

LINE COUNT: 2363

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 12 OF 21 USPATFULL

ACCESSION NUMBER: 1999:1223 USPATFULL

TITLE: Avirulent microbes and uses therefor

INVENTOR(S): Curtiss, III, Roy, St. Louis, MO, United States Kelly, Sandra M., St. Louis, MO, United States

PATENT ASSIGNEE(S): Washington University, St. Louis, MO, United States

(U.S. corporation)

KIND DATE NUMBER ----------US 5855880 US 5855880 19990105 US 1996-596732 19960205 (8) PATENT INFORMATION:

APPLICATION INFO.: RELATED APPLN. INFO.:

Division of Ser. No. US 1994-209542, filed on 10 Mar 1994 which is a continuation-in-part of Ser. No. US 1990-612001, filed on 9 Nov 1990, now abandoned which is a continuation-in-part of Ser. No. US 1988-200934.

filed on 1 Jun 1988, now abandoned which is a continuation-in-part of Ser. No. US 1987-58360, filed

on 4 Jun 1987, now abandoned , said Ser. No. US -200934 which is a continuation-in-part of Ser. No. US

1988-251304, filed on 3 Oct 1988, now abandoned which

is a continuation-in-part of Ser. No. US 1987-106072,

filed on 7 Oct 1987, now abandoned

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Scheiner, Laurie

LEGAL REPRESENTATIVE: Howell & Haferkamp, L.C.

NUMBER OF CLAIMS: 9
EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 6 Drawing Figure(s); 6 Drawing Page(s)

LINE COUNT: 3409

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 13 OF 21 USPATFULL

ACCESSION NUMBER: 1999:1222 USPATFULL

TITLE: Avirulent microbes and uses therefor

INVENTOR(S): Curtiss III, Roy, St. Louis, MO, United States

PATENT ASSIGNEE(S): Washington University, St. Louis, MO, United States

(U.S. corporation)

PATENT INFORMATION: US 5855879 19990105
APPLICATION INFO:: US 1994-209542 19940310 (8)
RELATED APPLING THEO.

RELATED APPLN. INFO.: Division of Ser. No. US 1991-785748, filed on 7 Nov

1991, now patented, Pat. No. US 5294441 which is a continuation-in-part of Ser. No. US 1990-612001, filed

on 9 Nov 1990, now abandoned which is a

continuation-in-part of Ser. No. US 1988-200934, filed

on 1 Jun 1988, now abandoned which is a

continuation-in-part of Ser. No. US 1987-58360, filed

on 4 Jun 1987, now abandoned , said Ser. No. US

-612001 which is a continuation-in-part of Ser. No. US 1988-251304, filed on 3 Oct 1988, now abandoned which is a continuation-in-part of Ser. No. US 1987-106072,

filed on 7 Oct 1987, now abandoned

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted

PRIMARY EXAMINER: Scheiner, Laurie

LEGAL REPRESENTATIVE: Howell & Haferkamp, L.C.

NUMBER OF CLAIMS: 9 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 6 Drawing Figure(s); 6 Drawing Page(s)

LINE COUNT: 3399

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 14 OF 21 USPATFULL

ACCESSION NUMBER: 1998:115424 USPATFULL

TITLE: Vaccines containing bacteria attenuated by

mutations in two genes of the aromatic amino acid

biosynthetic pathway

INVENTOR(S): Dougan, Gordon, Beckenham, United Kingdom

Chatfield, Steven Neville, Beckenham, United Kingdom Hormaeche, Carlos Estenio, Cambridge, United Kingdom

PATENT ASSIGNEE(S): Glaxo Wellcome, Inc., Research Triangle Park, NC,

United States (U.S. corporation)

RELATED APPLN. INFO.: Division of Ser. No. 135436, filed on 13 Oct 1993, now abandoned which is a continuation of Ser. No.

979460, filed on 20 Nov 1992, now abandoned which is a

continuation of Ser. No. 857092, filed on 20 Mar 1992, now abandoned which is a continuation of Ser. No. 642138, filed on 15 Jan 1991, now abandoned which is a continuation of Ser. No. 399539, filed on 22 Aug 1989, now abandoned

NUMBER DATE

PRIORITY INFORMATION:

GB 8730037

19871223

DOCUMENT TYPE:

Utility

FILE SEGMENT:

Granted

PRIMARY EXAMINER:

Minnifield, Nita

LEGAL REPRESENTATIVE:

Nixon & Vanderhye, P.C.

NUMBER OF CLAIMS:

23

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS:

1 Drawing Figure(s); 1 Drawing Page(s)

LINE COUNT:

628

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 15 OF 21 USPATFULL

ACCESSION NUMBER:

1998:72257 USPATFULL

TITLE:

Vaccines containing salmonella

bacteria attenuated by mutations in two genes of the

aromatic amino acid biosynthetic pathway

INVENTOR(S):

Dougan, Gordon, Beckenham, United Kingdom

Chatfield, Steven Neville, Beckenham, United Kingdom Hormaeche, Carlos Estenio, Cambridge, United Kingdom

PATENT ASSIGNEE(S):

Glaxo Wellcome, Inc., Research Triangle Park, NC,

United States (U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION:

APPLICATION INFO.:

US 5770214 19980623 US 1995-484314 19950607 (8)

RELATED APPLN. INFO.:

Continuation of Ser. No. US 1993-135436, filed on 13 Oct 1993, now abandoned which is a continuation of Ser. No. US 1992-979460, filed on 20 Nov 1992, now abandoned

which is a continuation of Ser. No. US 1992-857092, filed on 20 Mar 1992, now abandoned which is a

continuation of Ser. No. US 1991-642138, filed on 15 Jan 1991, now abandoned which is a continuation of Ser. No. US 1989-399539, filed on 22 Aug 1989, now abandoned

NUMBER DATE

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PRIORITY INFORMATION:

GB 1987-30037 19871223

DOCUMENT TYPE: FILE SEGMENT:

Utility

PRIMARY EXAMINER:

Granted

LEGAL REPRESENTATIVE:

Minnifield, Nita

NUMBER OF CLAIMS:

Nixon & Vanderhye, P.C.,

12

EXEMPLARY CLAIM:

1

NUMBER OF DRAWINGS:

1 Drawing Figure(s); 1 Drawing Page(s)

LINE COUNT:

599

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 16 OF 21 USPATFULL

ACCESSION NUMBER:

TITLE:

97:123350 USPATFULL

INVENTOR(S):

Nucleic acid encoding helicobacter pylori enolase Thompson, Stuart A., Joelton, TN, United States

PATENT ASSIGNEE(S):

Blaser, Martin J., Nashville, TN, United States Vanderbilt University, Nashville, TN, United States

(U.S. corporation)

NUMBER KIND DATE PATENT INFORMATION: US 5703219 19971230 US 1995-446920 19950522 APPLICATION INFO.: RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1994-215928, filed on 21 Mar 1994, now patented, Pat. No. US 5434253, issued on 18 Jul 1995 DOCUMENT TYPE: Utility FILE SEGMENT: Granted PRIMARY EXAMINER: Wax, Robert A. ASSISTANT EXAMINER: Lau, Kawai Needle & Rosenberg, PC LEGAL REPRESENTATIVE: NUMBER OF CLAIMS: EXEMPLARY CLAIM: NUMBER OF DRAWINGS: 6 Drawing Figure(s); 6 Drawing Page(s) LINE COUNT: 1485 CAS INDEXING IS AVAILABLE FOR THIS PATENT. ANSWER 17 OF 21 USPATFULL ACCESSION NUMBER: 97:70928 USPATFULL TITLE: Recombinant avirulent salmonella antifertility vaccines INVENTOR(S): Curtiss, III, Roy, St. Louis, MO, United States Tung, Kenneth S. K., Charlottsville, VA, United States PATENT ASSIGNEE(S): Washington University, St. Louis, MO, United States (U.S. corporation) NUMBER KIND DATE US 5656488 19970812 US 1994-222182 19940401 (8) APPLICATION INFO.:
RELATED APPLICATION PATENT INFORMATION: RELATED APPLN. INFO.: Continuation of Ser. No. US 1991-791347, filed on 18 Nov 1991, now abandoned which is a continuation-in-part of Ser. No. US 1990-615720, filed on 21 Nov 1990, now abandoned DOCUMENT TYPE: Utility FILE SEGMENT: Granted PRIMARY EXAMINER: Cunningham, Thomas M. LEGAL REPRESENTATIVE: Howell & Haferkamp, L.C. NUMBER OF CLAIMS: 50 EXEMPLARY CLAIM: 1 NUMBER OF DRAWINGS: 23 Drawing Figure(s); 20 Drawing Page(s) LINE COUNT: CAS INDEXING IS AVAILABLE FOR THIS PATENT. ANSWER 18 OF 21 USPATFULL ACCESSION NUMBER: 97:47098 USPATFULL TITLE: Method of detecting ligand interactions INVENTOR(S): McCoy, John M., Reading, MA, United States Lu, Zhijian, Arlington, MA, United States PATENT ASSIGNEE(S): Genetics Institute, Inc., Cambridge, MA, United States (U.S. corporation) NUMBER KIND DATE -----PATENT INFORMATION: US 5635182 19970603 APPLICATION INFO.: US 1994-260582 19940616 (8) DISCLAIMER DATE: 20101214 DOCUMENT TYPE: Utility FILE SEGMENT: Granted ASSISTANT EXAMINER: LEGAL REPRESENTATION PRIMARY EXAMINER: Wax, Robert A. Bugalsky, Gabriele E. LEGAL REPRESENTATIVE: Meinert, M. C.

NUMBER OF CLAIMS:

28

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS:

7 Drawing Figure(s); 7 Drawing Page(s)

LINE COUNT:

1935

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 19 OF 21 USPATFULL

ACCESSION NUMBER:

95:11759 USPATFULL

TITLE:

Avirulent microbes and uses therefor:

Salmonella typhi

INVENTOR(S):

Curtiss, III, Roy, St. Louis, MO, United States

Kelly, Sandra M., St. Louis, MO, United States

PATENT ASSIGNEE(S):

Washington University, St. Louis, MO, United States

(U.S. corporation)

NUMBER KIND DATE \_\_\_\_\_\_ US 5387744 19950207 PATENT INFORMATION: APPLICATION INFO.: US 1993-88394 19930707 (8)

DISCLAIMER DATE: 20110315

RELATED APPLN. INFO.: Continuation of Ser. No. US 1992-975892, filed on 13

Nov 1992, now abandoned which is a continuation of Ser. No. US 1990-612001, filed on 9 Nov 1990, now abandoned

which is a continuation-in-part of Ser. No. US

1988-200934, filed on 1 Jun 1988, now abandoned which is a continuation-in-part of Ser. No. US 1987-58360, filed on 4 Jun 1987, now abandoned , said Ser. No. US -612001 which is a continuation-in-part of Ser. No. US 1988-251304, filed on 3 Oct 1988, now abandoned which is a continuation-in-part of Ser. No. US 1987-106072,

filed on 7 Oct 1987, now abandoned

DOCUMENT TYPE:

Utility Granted

FILE SEGMENT: PRIMARY EXAMINER: Low, Christopher S. F.

LEGAL REPRESENTATIVE: Rogers, Howell & Haferkamp

NUMBER OF CLAIMS: 11 EXEMPLARY CLAIM:

1

NUMBER OF DRAWINGS:

4 Drawing Figure(s); 4 Drawing Page(s)

LINE COUNT: 2718

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 20 OF 21 USPATFULL L7

ACCESSION NUMBER:

94:22076 USPATFULL

TITLE:

Avirulent microbes and uses therefor:

salmonella typhi

INVENTOR(S):

Curtiss, III, Roy, St. Louis, MO, United States

PATENT ASSIGNEE(S):

Washington University, St. Louis, MO, United States

(U.S. corporation)

NUMBER KIND DATE \_\_\_\_\_\_ US 5294441 19940315 US 1991-785748 19911107 (7) PATENT INFORMATION: APPLICATION INFO.:

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1990-612001, filed

on 9 Nov 1990, now abandoned which is a

continuation-in-part of Ser. No. US 1988-200934, filed

on 1 Jun 1988, now abandoned which is a

continuation-in-part of Ser. No. US 1987-58360, filed on 4 Jun 1987, now abandoned , said Ser. No.

which is a continuation-in-part of Ser. No. US

1988-251304, filed on 3 Oct 1988, now abandoned which is a continuation-in-part of Ser. No. US 1987-106072,

filed on 7 Oct 1987, now abandoned

DOCUMENT TYPE: FILE SEGMENT:

Utility Granted PRIMARY EXAMINER: Low, Christopher S. F. LEGAL REPRESENTATIVE: Rogers, Howell & Haferkamp

NUMBER OF CLAIMS: 12 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 6 Drawing Figure(s); 6 Drawing Page(s)
3370

LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 21 OF 21 USPATFULL

93:78691 USPATFULL ACCESSION NUMBER:

TITLE: Virulence associated proteins in Borrelia burgdorferi

INVENTOR(S):

Norris, Steven J., Houston, TX, United States Barbour, Alan G., San Antonio, TX, United States Board of Regents, The University of Texas System,

PATENT ASSIGNEE(S):

Austin, TX, United States (U.S. corporation)

NUMBER KIND DATE ------PATENT INFORMATION: US 5246844
APPLICATION INFO.: US 1991-781355 19930921 19911022 (7) DOCUMENT TYPE: Utility FILE SEGMENT: Granted PRIMARY EXAMINER: Nucker, Christine M.
ASSISTANT EXAMINER: Dubrule, Chris
LEGAL REPRESENTATIVE: Arnold, White & Durkee NUMBER OF CLAIMS: 22 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS:

10 Drawing Figure(s); 14 Drawing Page(s)

\_ . \_

LINE COUNT: 1705

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CAS INDEXING IS AVAILABLE FOR THIS PATENT.

6 ANSWER 1 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC. ACCESSION NUMBER: 1995:315736 BIOSIS DOCUMENT NUMBER: PREV199598330036 Transepithelial Signaling to neutrophils by Salmonellae: A TITLE: Novel Virulence Mechanism for Gastroenteritis. McCormick, Beth A. (1); Miller, Samuel I.; Carnes, Denice; AUTHOR(S): Madara, James L. (1) Dep. Pathol., Brigham Women's Hospital, 75 Francis St., CORPORATE SOURCE: Boston, MA 02115 USA SOURCE: Infection and Immunity, (1995) Vol. 63, No. 6, pp. 2302-2309. ISSN: 0019-9567. DOCUMENT TYPE: Article LANGUAGE: English L16 ANSWER 2 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC. ACCESSION NUMBER: 1983:291842 BIOSIS DOCUMENT NUMBER: BA76:49334 TITLE: DELAYED HYPER SENSITIVITY IN MURINE SALMONELLOSIS SPECIFICITY OF FOOT PAD REACTION IN MICE INFECTED WITH ROUGH MUTANTS OF SALMONELLA-TYPHIMURIUM. AUTHOR(S): CHO N; SAITO-TAKI T; NAKANO M CORPORATE SOURCE: DEPARTMENT OF MICROBIOLOGY, JICHI MEDICAL SCHOOL, KAWACHI-GUN, TOCHIGI 329-04. SOURCE: MICROBIOL IMMUNOL, (1983) 27 (2), 167-176. CODEN: MIIMDV. ISSN: 0385-5600. FILE SEGMENT: BA; OLD LANGUAGE: English L16 ANSWER 3 OF 26 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1998:543176 CAPLUS DOCUMENT NUMBER: 129:159061 TITLE: Salmonella lacking lipid A as a result of mutation in the msbB or htrB genes INVENTOR(S): Maskell, Duncan John; Dougan, Gordon PATENT ASSIGNEE(S): Imperial College of Science, Technology & Medicine, UK SOURCE: PCT Int. Appl., 39 pp. CODEN: PIXXD2 DOCUMENT TYPE: Patent LANGUAGE: English FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION: KIND DATE PATENT NO. APPLICATION NO. DATE WO 9833923 A1 19980806 WO 1998-GB291 19980130 W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG AU 9858734 A1 19980825 AU 1998-58734 19980130 EP 973911 20000126 A1 EP 1998-902105 19980130 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI

L16 ANSWER 4 OF 26 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.

GB 1997-1886

GB 1997-1887

WO 1998-GB291

19970130

19970130

19980130

ACCESSION NUMBER: 76155971 EMBASE 1976155971

DOCUMENT NUMBER:

PRIORITY APPLN. INFO.:

TITLE: Studies on the host range specificity of pyocin P1.

AUTHOR: Brandis H.; Kraemer J.; Israil A.

CORPORATE SOURCE: Inst. Med. Microbiol. Immunol., Bonn Univ., Bonn, Germany

SOURCE: Archives Roumaines de Pathologie Experimentale et de

Microbiologie, (1975) 34/1-2 (13-20).

. CODEN: APEMAR

DOCUMENT TYPE: Jo

AUTHOR:

Journal

FILE SEGMENT: 004 Microbiology

LANGUAGE: English

L16 ANSWER 5 OF 26 MEDLINE

ACCESSION NUMBER: 74061355 MEDLINE

DOCUMENT NUMBER: 74061355 PubMed ID: 4587616

TITLE: Mutants of group D1 Salmonella carrying the

somatic antigen of group A organisms: isolation and

serological characterization. Uchida T; Matsumoto T; Sasaki T

SOURCE: JOURNAL OF BACTERIOLOGY, (1974 Jan) 117 (1) 8-12.

Journal code: HH3; 2985120R. ISSN: 0021-9193.

PUB. COUNTRY: United States

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 197402

ENTRY DATE: Entered STN: 19900310

Last Updated on STN: 19900310 Entered Medline: 19740222

L16 ANSWER 6 OF 26 USPATFULL

ACCESSION NUMBER: 2002:48258 USPATFULL 26 Human secreted proteins

INVENTOR(S): Ruben, Steven M., Olney, MD, UNITED STATES

Birse, Charles E., North Potomac, MD, UNITED STATES

Duan, Roxanne D., Bethesda, MD, UNITED STATES Soppet, Daniel R., Centreville, VA, UNITED STATES Rosen, Craig A., Laytonsville, MD, UNITED STATES Shi, Yanggu, Gaithersburg, MD, UNITED STATES LaFleur, David W., Washington, DC, UNITED STATES Olsen, Henrik, Gaithersburg, MD, UNITED STATES Ebner, Reinhard, Gaithersburg, MD, UNITED STATES Florence, Kimberly A., Rockville, MD, UNITED STATES

(9)

Ni, Jian, Rockville, MD, UNITED STATES

Young, Paul, Gaithersburg, MD, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: US 2002028449 A1 20020307 APPLICATION INFO.: US 2000-726643 A1 20001201

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. WO 2000-US15187, filed

on 2 Jun 2000, UNKNOWN

NUMBER DATE

PRIORITY INFORMATION: US 1999-137725P 19990607 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 23 EXEMPLARY CLAIM: 1

EXEMPLARY CLAIM: 1
LINE COUNT: 20287

L16 ANSWER 7 OF 26 USPATFULL

ACCESSION NUMBER: 2002:43671 USPATFULL

TITLE:

INVENTOR(S):

49 human secreted proteins

Moore, Paul A., Germantown, MD, UNITED STATES

Ruben, Steven M., Olney, MD, UNITED STATES Olsen, Henrik S., Gaithersburg, MD, UNITED STATES

Shi, Yanggu, Gaithersburg, MD, UNITED STATES Rosen, Craig A., Laytonsville, MD, UNITED STATES Florence, Kimberly A., Rockville, MD, UNITED STATES Soppet, Daniel R., Centreville, VA, UNITED STATES LaFleur, David W., Washington, DC, UNITED STATES Endress, Gregory A., Potomac, MD, UNITED STATES

Ebner, Reinhard, Gaithersburg, MD, UNITED STATES Komatsoulis, George, Silver Spring, MD, UNITED STATES

Duan, Roxanne D., Bethesda, MD, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: APPLICATION INFO.:

US 2002026040 A1 20020228 US 2001-904615 A1 20010716 (9)

RELATED APPLN. INFO.: Continuation of Ser. No. US 2000-739254, filed on 19

Dec 2000, PENDING Continuation of Ser. No. US 2000-511554, filed on 23 Feb 2000, ABANDONED

Continuation-in-part of Ser. No. WO 1999-US19330, filed

on 24 Aug 1999, UNKNOWN

NUMBER DATE

PRIORITY INFORMATION:

US 1998-97917P 19980825 (60)

US 1998-98634P 19980831 (60)

APPLICATION

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATE

NUMBER OF CLAIMS: 23
EXEMPLARY CLAIM.

EXEMPLARY CLAIM:

LINE COUNT: 19401

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 8 OF 26 USPATFULL

ACCESSION NUMBER: 2002:43187 USPATFULL

TITLE: INVENTOR(S): Transforming growth factor alpha HIII

Wei, Ying-Fei, Berkeley, CA, UNITED STATES

NUMBER KIND DATE -----

PATENT INFORMATION: APPLICATION INFO.: US 2002025553 A1 20020228 US 2000-726348 A1 20001201 (9)

RELATED APPLN. INFO.:

Continuation-in-part of Ser. No. US 1997-778545, filed

on 3 Jan 1997, PENDING

NUMBER DATE

PRIORITY INFORMATION:

-----US 1996-11136P 19960104 (60)

US 1999-168387P 19991202 (60)

DOCUMENT TYPE:

Utility APPLICATION

FILE SEGMENT: LEGAL REPRESENTATIVE:

HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

25

NUMBER OF DRAWINGS:

5 Drawing Page(s)

LINE COUNT:

L16 ANSWER 9 OF 26 USPATFULL

ACCESSION NUMBER:

2002:37998 USPATFULL

Genes identified as required for proliferation of E. TITLE:

INVENTOR(S): Forsyth, R. Allyn, San Diego, CA, UNITED STATES

> Ohlsen, Kari L., San Diego, CA, UNITED STATES Zyskind, Judith W., La Jolla, CA, UNITED STATES

NUMBER KIND DATE \_\_\_\_\_\_ PATENT INFORMATION: US 2002022718 A1 20020221 APPLICATION INFO.: US 2000-741669 A1 20001219 (9)

> NUMBER DATE -----

US 1999-173005P 19991223 (60)

PRIORITY INFORMATION Utility
DOCUMENT TYPE: Utility
APPLICATION
TOORRE MARTE

LEGAL REPRESENTATIVE: KNOBBE MARTENS OLSON & BEAR LLP, 620 NEWPORT CENTER

DRIVE, SIXTEENTH FLOOR, NEWPORT BEACH, CA, 92660

131 NUMBER OF CLAIMS: EXEMPLARY CLAIM:

1 3 Drawing Page(s) 5270 NUMBER OF DRAWINGS:

LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 10 OF 26 USPATFULL

ACCESSION NUMBER: 2002:22131 USPATFULL TITLE: 18 Human secreted proteins

INVENTOR(S): Shi, Yanggu, Gaithersburg, MD, UNITED STATES

Young, Paul E., Gaithersburg, MD, UNITED STATES Ebner, Reinhard, Gaithersburg, MD, UNITED STATES Soppet, Daniel R., Centreville, VA, UNITED STATES

Ruben, Steven M., Olney, MD, UNITED STATES

NUMBER KIND DATE -----PATENT INFORMATION: US 2002012966 A1 20020131 APPLICATION INFO.: US 2001-768826 A1 20010125 (9)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. WO 2000-US22350, filed

on 15 Aug 2000, UNKNOWN

NUMBER DATE -----

PRIORITY INFORMATION: US 1999-148759P 19990816 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICAT FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

23 NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1 LINE COUNT: 18157

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 11 OF 26 USPATFULL

ACCESSION NUMBER: 2002:12261 USPATFULL

TITLE: Uteroglobin-like polynucleotides, polypeptides, and

antibodies

INVENTOR(S): Ni, Jian, Germantown, MD, UNITED STATES

Ruben, Steven M., Olney, MD, UNITED STATES

KIND DATE NUMBER -----

PATENT INFORMATION: US 2002006640 A1 20020117 APPLICATION INFO.: US 2001-846258 A1 20010502 (9)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. WO 2000-US30326, filed

on 3 Nov 2000, UNKNOWN

NUMBER DATE

PRIORITY INFORMATION: US 1999-163395P 19991104 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 22 EXEMPLARY CLAIM: 1 LINE COUNT: 12076

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 12 OF 26 USPATFULL

ACCESSION NUMBER: 2002:8489 USPATFULL

TITLE:

Retinoid receptor interacting polynucleotides,

polypeptides, and antibodies

INVENTOR(S):

Shi, Yanggu, Gaithersburg, MD, UNITED STATES Ruben, Steven M., Olney, MD, UNITED STATES

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. WO 2000-US22351, filed

on 15 Aug 2000, UNKNOWN

NUMBER DATE

PRIORITY INFORMATION: US 1999-148757P 19990816 (60)

US 2000-189026P 20000314 (60)...

DOCUMENT TYPE: Utility

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 22 EXEMPLARY CLAIM: 1 LINE COUNT: 11257

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 13 OF 26 USPATFULL

ACCESSION NUMBER:

2001:155766 USPATFULL 49 human secreted proteins

TITLE:
INVENTOR(S):

Moore, Paul A., Germantown, MD, United States

Ruben, Steven M., Oley, MD, United States

Olsen, Henrik S., Gaithersburg, MD, United States Shi, Yanggu, Gaithersburg, MD, United States Rosen, Craig A., Laytonsville, MD, United States Florence, Kimberly A., Rockville, MD, United States Soppet, Daniel R., Centreville, VA, United States Lafleur, David W., Washington, DC, United States Endress, Gregory A., Potomac, MD, United States Ebner, Reinhard, Gaithersburg, MD, United States

Komatsoulis, George, Silver Spring, MD, United States Duan, Roxanne D., Bethesda, MD, United States

APPLICATION INFO.:

US 2001021700 A1 20010913 US 2000-739254 A1 20001219 (9)

RELATED APPLN. INFO.: Continuation of Ser. No. US 2000-511554, filed on 23 Feb 2000, ABANDONED Continuation-in-part of Ser. No. WO 1999-US19330, filed on 24 Aug 1999, UNKNOWN

NUMBER DATE -----

PRIORITY INFORMATION:

US 1998-97917P 19980825 (60) US 1998-98634P 19980831 (60) US 1998-98634P

DOCUMENT TYPE:

Utility

FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE:

HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

23 1

LINE COUNT:

15462

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 14 OF 26 USPATFULL

ACCESSION NUMBER:

2001:86448 USPATFULL

TITLE:

Efflux pump inhibitors

INVENTOR(S):

Chamberland, Suzanne, Los Gatos, CA, United States

Lee, May, Los Altos, CA, United States

Leger, Roger, Mountain View, CA, United States Lee, Ving J., Los Altos, CA, United States Renau, Thomas, Santa Clara, CA, United States Zhang, Zhijia J., Foster City, CA, United States Microcide Pharmaceuticals, Inc., Mountain View, CA,

PATENT ASSIGNEE(S):

United States (U.S. corporation)

DATE NUMBER KIND

PATENT INFORMATION: US 6245746 B1 20010612
APPLICATION INFO.: US 1998-20001 19980204 (9)
RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1998-12363, filed

on 23 Jan 1998, now patented, Pat. No. US 6114310

DOCUMENT TYPE:

Utility

FILE SEGMENT: PRIMARY EXAMINER:

GRANTED Weddington, Kevin E.

LEGAL REPRESENTATIVE:

Lyon & Lyon LLP

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

35 1

LINE COUNT:

5091

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 15 OF 26 USPATFULL

ACCESSION NUMBER:

2001:67794 USPATFULL

TITLE:

Human respiratory syncytial virus peptides with

antifusogenic and antiviral activities

INVENTOR(S):

Barney, Shawn O'Lin, Cary, NC, United States Lambert, Dennis Michael, Cary, NC, United States

Petteway, Stephen Robert, Cary, NC, United States Trimeris, Inc., Durham, NC, United States (U.S.

PATENT ASSIGNEE(S): corporation)

> NUMBER KIND DATE -----

PATENT INFORMATION: APPLICATION INFO.:

RELATED APPLN. INFO.:

US 6228983 B1 20010508 US 1995-485264 19950607 19950607 (8)

Division of Ser. No. US 1995-470896, filed on 6 Jun 1995 Continuation-in-part of Ser. No. US 1994-360107, filed on 20 Dec 1994 Continuation-in-part of Ser. No.

US 1994-255208, filed on 7 Jun 1994

Continuation-in-part of Ser. No. US 1993-73028, filed

on 7 Jun 1993, now patented, Pat. No. US 5464933

DOCUMENT TYPE: FILE SEGMENT:

Utility Granted

PRIMARY EXAMINER:

Scheiner, Laurie

ASSISTANT EXAMINER:

LEGAL REPRESENTATIVE:

Parkin, Jeffrey S. Pennie & Edmonds LLP

NUMBER OF CLAIMS:

62 1

EXEMPLARY CLAIM: NUMBER OF DRAWINGS:

84 Drawing Figure(s); 83 Drawing Page(s)

LINE COUNT:

32166

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 16 OF 26 USPATFULL

ACCESSION NUMBER:

2001:40493 USPATFULL

TITLE:

Peptidomimetic efflux pump inhibitors

INVENTOR(S):

Leger, Roger, Mountain View, CA, United States Lee, Ving J., Los Altos, CA, United States

She, Miles, Oakland, CA, United States

PATENT ASSIGNEE(S):

Microcide Pharmaceuticals, Inc., Mountain View, CA,

United States (U.S. corporation)

NUMBER KIND DATE PATENT INFORMATION: US 6204279 B1 20010320 APPLICATION INFO.: US 1998-89734 19980603 19980603 (9) DOCUMENT TYPE: Utility FILE SEGMENT: Granted FILE SEGMENT:
PRIMARY EXAMINER: Lee, Howard C.

LEGAL REPRESENTATIVE: Lyon & Lyon LLP

NUMBER OF CLAIMS: 22 EXEMPLARY CLAIM: 1 LINE COUNT: 3003

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 17 OF 26 USPATFULL

ACCESSION NUMBER:

2000:121286 USPATFULL

TITLE: INVENTOR(S): Bioluminescent bioreporter integrated circuit Simpson, Michael L., Knoxville, TN, United States

Sayler, Gary S., Blaine, TN, United States Paulus, Michael J., Knoxville, TN, United States

PATENT ASSIGNEE(S):

UT Battelle, LLC, Oak Ridge, TX, United States (U.S.

corporation)

The University of Tennessee Research Corp., Knoxville,

TX, United States (U.S. corporation)

NUMBER KIND DATE -----US 6117643 20000912 US 1997-978439 19971125 (8) PATENT INFORMATION: APPLICATION INFO.: DOCUMENT TYPE: Utility

FILE SEGMENT:

Granted

PRIMARY EXAMINER:

Chin, Christopher L.

LEGAL REPRESENTATIVE: Williams, Morgan & Amerson, P.C.

NUMBER OF CLAIMS: 32 EXEMPLARY CLAIM:

1 NUMBER OF DRAWINGS:

43 Drawing Figure(s); 39 Drawing Page(s)

LINE COUNT:

5414

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 18 OF 26 USPATFULL

ACCESSION NUMBER:

2000:117691 USPATFULL Efflux pump inhibitors

TITLE: INVENTOR(S):

Chamberland, Suzanne, Los Gatos, CA, United States

Lee, May, Los Altos, CA, United States

Leger, Roger, Mountain View, CA, United States Lee, Ving J., Los Altos, CA, United States Renau, Thomas, Santa Clara, CA, United States Zhang, Zhijia J., Foster City, CA, United States PATENT ASSIGNEE(S):

Microcide Pharmaceuticals, Inc., Mountain View, CA,

United States (U.S. corporation)

NUMBER KIND DATE -----US 6114310 20000905 PATENT INFORMATION: US 1998-12363 APPLICATION INFO.: 19980123 (9)

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Weddington, Kevin E LEGAL REPRESENTATIVE: Lyon & Lyon LLP

NUMBER OF CLAIMS: 33 EXEMPLARY CLAIM: LINE COUNT: 4949

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 19 OF 26 USPATFULL

ACCESSION NUMBER: 2000:37605 USPATFULL

TITLE: Rapid inducible beta-lactamase screen test INVENTOR(S):

Johnston, Judith, Carmichael, CA, United States Felland, Tracy, Sacramento, CA, United States Bascomb, Shoshana, Davis, CA, United States Godsey, James H., Folsom, CA, United States

PATENT ASSIGNEE(S): Dade MicroScan Inc., West Sacramento, CA, United States

(U.S. corporation)

NUMBER KIND DATE -----PATENT INFORMATION: US 6043048 20000328 APPLICATION INFO.: US 1996-686434 19960726 (8)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1994-324387, filed on 17

Oct 1994, now abandoned which is a continuation of Ser. No. US 1993-109102, filed on 19 Aug 1993, now abandoned

which is a continuation of Ser. No. US 1992-924351, filed on 31 Jul 1992, now abandoned which is a

continuation of Ser. No. US 1991-696459, filed on 6 May

1991, now abandoned

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Leary, Louise N.

LEGAL REPRESENTATIVE: Mueller, Lisa V, Tilton, Timothy L, Ruszala, Lois K

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

1 Drawing Figure(s); 1 Drawing Page(s) NUMBER OF DRAWINGS:

LINE COUNT: 435

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 20 OF 26 USPATFULL

ACCESSION NUMBER: 1999:150935 USPATFULL

TITLE: Method for screening for non-tetracycline efflux pump

inhibitors

INVENTOR(S): Trias, Joaquim, San Mateo, CA, United States

Chamberland, Suzanne, Los Gatos, CA, United States Hecker, Scott J., Los Gatos, CA, United States Lee, Ving J., Los Altos, CA, United States

PATENT ASSIGNEE(S): Microcide Pharmaceuticals, Inc., Mountain View, CA,

United States (U.S. corporation)

NUMBER KIND DATE US 5989832 19991123 US 1995-427088 19950421 (8) PATENT INFORMATION: APPLICATION INFO.:

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Feisee, Lila ASSISTANT EXAMINER: Pak, Michael Lyon & Lyon LLP LEGAL REPRESENTATIVE:

110 NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1

1

NUMBER OF DRAWINGS: 21 Drawing Figure(s); 22 Drawing Page(s)

LINE COUNT: 3607

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 21 OF 26 USPATFULL

1998:150449 USPATFULL ACCESSION NUMBER: TITLE: Salmonella vaccines

Miller, Samuel I., Seattle, WA, United States INVENTOR(S):

Mekalanos, John J., Cambridge, MA, United States

PATENT ASSIGNEE(S): The General Hospital Corporation, Boston, MS, United

States (U.S. corporation)

President and Fellows of Harvard College, Cambridge,

MS, United States (U.S. corporation)

NUMBER KIND DATE US 5843426 US 1995-565861 PATENT INFORMATION: 19981201 APPLICATION INFO.: 19951201 (8)

Continuation-in-part of Ser. No. US 1994-271354, filed RELATED APPLN. INFO.:

on 6 Jul 1994, now patented, Pat. No. US 5695983 which is a continuation-in-part of Ser. No. US 1993-90526, filed on 9 Jul 1993, now patented, Pat. No. US 5599537

which is a continuation-in-part of Ser. No. US 1990-629602, filed on 18 Dec 1990, now abandoned

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: LeGuvader, John L. ASSISTANT EXAMINER: Brusca, John S.

Fish & Richardson P.C. LEGAL REPRESENTATIVE:

NUMBER OF CLAIMS: 1 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 25 Drawing Figure(s); 20 Drawing Page(s)

LINE COUNT: 4505

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 22 OF 26 USPATFULL

ACCESSION NUMBER: 97:115147 USPATFULL TITLE: Salmonella vaccines

INVENTOR(S): Miller, Samuel I., Brookline, MA, United States Mekalanos, John J., Cambridge, MA, United States

PATENT ASSIGNEE(S): The General Hospital Corporation, Boston, MA, United

States (U.S. corporation)

President and Fellows of Harvard College, Cambridge,

MA, United States (U.S. corporation)

NUMBER KIND DATE -----US 5695983 US 1994-271354 US 5695983 PATENT INFORMATION: 19971209 APPLICATION INFO.: 19940706 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1993-90526, filed on 9 Jul 1993, now patented, Pat. No. US 5599537 which is a continuation-in-part of Ser. No. US 1990-629602,

filed on 18 Dec 1990, now abandoned

DOCUMENT TYPE: Utility

FILE SEGMENT: Granted PRIMARY EXAMINER: Ketter, James ASSISTANT EXAMINER: Brusca, John S.

LEGAL REPRESENTATIVE: Fish & Richardson P.C.

NUMBER OF CLAIMS:

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS:

25 Drawing Figure(s); 20 Drawing Page(s)

LINE COUNT:

3780

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 23 OF 26 USPATFULL

ACCESSION NUMBER:

90:15473 USPATFULL

TITLE:

1

Novel antibiotic NK84-0218 and process for the

production of the same

INVENTOR(S):

Shimada, Nobuyoshi, Tokyo, Japan Hasegawa, Shigeru, Saitama, Japan Harada, Takashi, Tokyo, Japan Tomizawa, Takayuki, Tokyo, Japan Fujii, Akio, Kanagawa, Japan

PATENT ASSIGNEE(S):

Nippon Kayaku Kabushiki Kaisha, Tokyo, Japan (non-U.S.

corporation)

NUMBER KIND DATE \_\_\_\_\_\_

PATENT INFORMATION: APPLICATION INFO.:

US 4904585 19900227 US 1987-115980 19871102 (7)

RELATED APPLN. INFO.:

Division of Ser. No. US 1985-796114, filed on 8 Nov

1985, now patented, Pat. No. US 4743689

NUMBER DATE ------JP 1984-243172 19841120

PRIORITY INFORMATION:

Utility

DOCUMENT TYPE: FILE SEGMENT:

Granted

PRIMARY EXAMINER: Warren, Charles F. ASSISTANT EXAMINER: Marx, Irene PRIMARY EXAMINER:

LEGAL REPRESENTATIVE: Nields, Henry C. ....

NUMBER OF CLAIMS:

1

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS:

3 Drawing Figure(s); 3 Drawing Page(s)

LINE COUNT:

489 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 24 OF 26 USPATFULL

ACCESSION NUMBER:

INVENTOR(S):

88:29511 USPATFULL

TITLE:

Antibiotic derivative of adenine Shimada, Nobuyoshi, Tokyo, Japan Hasegawa, Shigeru, Saitama, Japan Harada, Takashi, Tokyo, Japan Tomizawa, Takayuki, Tokyo, Japan

Fujii, Akio, Kanagawa, Japan

PATENT ASSIGNEE(S):

Nippon Kayaku Kabushiki Kaisha, Tokyo, Japan (non-U.S.

corporation)

KIND DATE NUMBER \_\_\_\_\_ \_\_\_ US 4743689 19880510 19851108 (6)

PATENT INFORMATION: APPLICATION INFO.:

US 1985-796114

\_\_\_\_\_\_

NUMBER DATE

PRIORITY INFORMATION:

JP 1984-243172 19841120

DOCUMENT TYPE:

FILE SEGMENT:

Utility Granted

PRIMARY EXAMINER: LEGAL REPRESENTATIVE: Nields, Henry C. 1

Rizzo, Nicholas S.

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS:

3 Drawing Figure(s); 3 Drawing Page(s)

478 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 25 OF 26 USPATFULL

ACCESSION NUMBER: 80:35722 USPATFULL

Antibiotic No. 2-200 and process for producing thereof TITLE:

Oishi, Hideo, Sayama, Japan INVENTOR(S):

Noto, Takao, Machida, Japan

Nawata, Yoshiharu, Kodaira, Japan Okazaki, Hiroshi, Sayama, Japan Sasaki, Hiroshi, Higashikurume, Japan

Ando, Kunio, Kawasaki, Japan Ogawa, Haruki, Chofu, Japan

PATENT ASSIGNEE(S): Chugai Seivaku Kabushiki Kaisha, Tokyo, Japan (non-U.S.

corporation)

NUMBER KIND DATE

US 4214091 US 1978-944303 PATENT INFORMATION: APPLICATION INFO.: 19800722 19780921 (5)

NUMBER DATE \_\_\_\_\_\_

PRIORITY INFORMATION: JP 1977-113205 19770922

DOCUMENT TYPE: Utility Granted FILE SEGMENT:

FILE SEGMENT: Granted
PRIMARY EXAMINER: Mars, Howard T.
ASSISTANT EXAMINER: Hendriksen, L. LEGAL REPRESENTATIVE: Browdy and Neimark

NUMBER OF CLAIMS: 1 1 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 4 Drawing Figure(s); 3 Drawing Page(s) LINE COUNT: 360

LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 26 OF 26 USPATFULL

ACCESSION NUMBER: 72:39274 USPATFULL

BLEOMYCIN AND PROCESSES FOR THE PREPARATION THEREOF TITLE: Umezawa, Hamao, 23 Kita-4-chome Toyotama, Nerima-ku, INVENTOR(S):

Tokyo, Japan

Maeda, Kenji, 258 Gotanda-1-chome, Shinagawa-ku, Tokyo,

Okami, Yoshiro, 18-3 Denenchofu-6, Ota-ku, Tokyo, Japan Takeuchi, Tomio, 273 Imaizumicho, Ota-ku, Tokyo, Japan

NUMBER KIND DATE -----PATENT INFORMATION: US 3681491 19720801 APPLICATION INFO.: US 1965-511448 19651203 19651203 (4)

Continuation-in-part of Ser. No. US 1964-345233, filed RELATED APPLN. INFO.:

on 17 Feb 1964, now abandoned

NUMBER DATE \_\_\_\_\_

PRIORITY INFORMATION: JP 1963-10177 19630305

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Goldberg, Jerome D.

LEGAL REPRESENTATIVE: Carlson; Curtis W., Brink; Richard H., Simonton; Robert

B., Taylor, Jr.; Herbert W.

NUMBER OF CLAIMS: LINE COUNT: 1017 ANSWER 1 OF 46 USPATFULL

ACCESSION NUMBER: 2002:43170 USPATFULL

TITLE:

Methods and reagents for isolating biologically active

antibodies

INVENTOR(S): Gyuris, Jeno, Winchester, MA, UNITED STATES

Ewert, Sebastian-Meier, Wolfratshausen, GERMANY,

FEDERAL REPUBLIC OF

Nagy, Zolton, Wolfratshausen, GERMANY, FEDERAL REPUBLIC

OF

Morris, Aaron, Brighton, MA, UNITED STATES

NUMBER KIND DATE -----PATENT INFORMATION: US 2002025536 A1 20020228 APPLICATION INFO.: US 2001-891557 A1 20010626 Al 20010626 .(9)

NUMBER DATE

PRIORITY INFORMATION: US 2000-214200P 20000626 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: ROPES & GRAY, ONE INTERNATIONAL PLACE, BOSTON, MA,

02110-2624

NUMBER OF CLAIMS: 83 EXEMPLARY CLAIM:

1
4 Drawing Page(s) NUMBER OF DRAWINGS:

LINE COUNT: 3051

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 2 OF 46 USPATFULL

ACCESSION NUMBER: 2002:16560 USPATFULL

TITLE:

Methods and compositions for inhibiting adhesion by

microorganisms

INVENTOR(S): Doyle, Ron J., Louisville, KY, UNITED STATES

Cowan, M. M., Cincinnati, OH, UNITED STATES

NUMBER KIND DATE ------PATENT INFORMATION: APPLICATION INFO.: US 2002009436 A1 20020124 US 2000-750857 A1 20001229 A1 20001229 (9)

NUMBER DATE -----

PRIORITY INFORMATION: US 1999-173821P 19991230 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: MERCHANT & GOULD PC, P.O. BOX 2903, MINNEAPOLIS, MN,

55402-0903

NUMBER OF CLAIMS: 50

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 13 Drawing Page(s)

LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 3 OF 46 USPATFULL

ACCESSION NUMBER: 2002:50620 USPATFULL

TITLE: Pathogenic Escherichia coli associated protein EspA INVENTOR(S):

Finlay, B. Brett, Richmond, CANADA Kenny, Brendan, Redland, UNITED KINGDOM Stein, Markus, Quercegrossa, ITALY

Donnenberg, Michael S., Baltimore, MD, United States Lai, Li-Ching, Upper Arlington, OH, United States

PATENT ASSIGNEE(S): University of British Columbia, Vancouver, CANADA

(non-U.S. corporation)

NUMBER KIND DATE US 6355254 B1 20020312 WO 9740063 19971030 PATENT INFORMATION: US 1999-171517 APPLICATION INFO.: 19990810 (9) WO 1997-CA265 19970423 19990810 PCT 371 date NUMBER DATE -----PRIORITY INFORMATION: US 1996-15999P 19960423 (60) DOCUMENT TYPE: Utility FILE SEGMENT: GRANTED PRIMARY EXAMINER: Graser, Jennifer E. LEGAL REPRESENTATIVE: SEED Intellectual Property Law Group PLLC NUMBER OF CLAIMS: EXEMPLARY CLAIM: NUMBER OF DRAWINGS: 11 Drawing Figure(s); 8 Drawing Page(s) LINE COUNT: 2147 ANSWER 4 OF 46 USPATFULL L6 ACCESSION NUMBER: 2002:19176 USPATFULL Method of detecting shigella and shigella mxiM DNA TITLE: Schuch, Raymond, Washington, DC, United States Sandlin, Robin C., Columbia, MD, United States Maurelli, Anthony T., Silver Spring, MD, United States INVENTOR(S): PATENT ASSIGNEE(S): The Henry M. Jackson Foundation for the Advancement of Military Medicine, Rockville, MD, United States (U.S. corporation) NUMBER KIND DATE -----US 6342352 B1 20020129 US 1999-296670 19990422 PATENT INFORMATION: APPLICATION INFO.: <sub>.</sub> 19990422 (9) NUMBER DATE US 1998-82944P 19980424 (60) PRIORITY INFORMATION: DOCUMENT TYPE: Utility FILE SEGMENT: GRANTED PRIMARY EXAMINER: Devi, S. LEGAL REPRESENTATIVE: Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P. NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1 NUMBER OF DRAWINGS: 9 Drawing Figure(s); 8 Drawing Page(s) LINE COUNT: 2019 CAS INDEXING IS AVAILABLE FOR THIS PATENT. 1.6 ANSWER 5 OF 46 USPATFULL ACCESSION NUMBER: 2001:155455 USPATFULL TITLE: Salmonella vaccine INVENTOR(S): Nuijten, Petrus Johannes Maria, Boxmeer, Netherlands Witvliet, Maarten Hendrik, Oostrum, Netherlands NUMBER KIND DATE -----PATENT INFORMATION: US 2001021386 A1 20010913 US 2000-749025 A1 20001227

A1 20001227 (9)

NUMBER DATE -----PRIORITY INFORMATION: EP 1999-204564 19991228 DOCUMENT TYPE: Utility

APPLICATION INFO.:

APPLICATION FILE SEGMENT:

LEGAL REPRESENTATIVE: William M. Blackstone, Akzo nobel Patent Department,

Suite 206, 1300 Piccard Drive, Rockville, MD, 20850

NUMBER OF CLAIMS: 1 EXEMPLARY CLAIM:

3 Drawing Page(s) NUMBER OF DRAWINGS:

745 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 6 OF 46 USPATFULL

ACCESSION NUMBER: 2001:214821 USPATFULL

TITLE: Sensor for analyte detection

INVENTOR(S): Bauer, Alan Joseph, Jerusalem, Israel

PATENT ASSIGNEE(S): Biosensor Systems Design., Inc., Cedarhurst, NY, United

States (U.S. corporation)

NUMBER KIND DATE US 6322963 B1 20011127 WO 9966322 19991223 PATENT INFORMATION: 19991223. US 2000-701906 APPLICATION INFO.: 20001205 (9) WO 1999-IL309 19990610 20001205 PCT 371 date 20001205 PCT 102(e) date Continuation-in-part of Ser. No. US 1998-110686, filed on 7 Jul 1998, now patented, Pat. No. US 6096497 RELATED APPLN. INFO.:

NUMBER DATE \_\_\_\_\_ \_\_\_ IL 1998-124903 19980615 PRIORITY INFORMATION: \_\_\_\_\_IL\_1998=125720\_\_\_\_19980819\_ IL 1998-127019 19981112 IL 1999-129754 19990504 19990504

DOCUMENT TYPE: FILE SEGMENT: Utility

FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Leary, Louise N. LEGAL REPRESENTATIVE: Bickel, Arthur S.

NUMBER OF CLAIMS: 17 1 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 14 Drawing Figure(s); 9 Drawing Page(s)

1686 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 7 OF 46 USPATFULL

2001:97685 USPATFULL ACCESSION NUMBER:

Devices and methods for detecting target molecules in TITLE:

biological samples

Muir, Andrew R., Cohasset, MA, United States INVENTOR(S):

Boles, T. Christian, Waltham, MA, United States

Adams, Christopher P., Somerville, MA, United States

Mosaic Technologies, Inc., Waltham, MA, United States PATENT ASSIGNEE(S):

(U.S. corporation)

NUMBER KIND DATE \_\_\_\_\_\_ US 6251660 B1 20010626 US 1998-200126 19981125 (9) PATENT INFORMATION: APPLICATION INFO.:

NUMBER DATE \_\_\_\_\_\_

US 1997-66508P 19971125 (60) PRIORITY INFORMATION:

Utility DOCUMENT TYPE: GRANTED FILE SEGMENT:

PRIMARY EXAMINER: Sisson, Bradley L. LEGAL REPRESENTATIVE: Hamilton, Brook, Smith & Reynolds, P.C.

NUMBER OF CLAIMS: 35 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 22 Drawing Figure(s); 14 Drawing Page(s)

2459 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 8 OF 46 USPATFULL

ACCESSION NUMBER: 2001:40233 USPATFULL

66 kDa antigen from Borrelia TITLE: Bergstom, Sven, Umea, Sweden INVENTOR(S):

Barbour, Alan George, Irvine, CA, United States

Symbicom Aktiebolag, Umea, Sweden (non-U.S. PATENT ASSIGNEE(S):

corporation)

NUMBER KIND DATE -----US 6204018 B1 20010320 WO 9535379 19951228 PATENT INFORMATION: US 1997-750494 APPLICATION INFO.: 19970612 (8) WO 1995-US7665 19950619 19970612 PCT 371 date 19970612 PCT 102(e) date

Continuation-in-part of Ser. No. US 1994-262220, filed RELATED APPLN. INFO.:

on 20 Jun 1994, now patented, Pat. No. US 6054296

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

FILE SEGMENT: Granted
PRIMARY EXAMINER: Minnifield, Nita M.

LEGAL REPRESENTATIVE: Frommer Lawrence & Haug LLP, Frommer, William S.,

Kolawski, Thomas J.

20 NUMBER OF CLAIMS:

EXEMPLARY CLAIM: 1

5 Drawing Figure(s); 5 Drawing Page(s) NUMBER OF DRAWINGS:

LINE COUNT: 2159

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 9 OF 46 USPATFULL

ACCESSION NUMBER: 2001:40219 USPATFULL

TITLE: Immunodiagnostic test for enterohemorrhagic Escherichia

coli infection

INVENTOR(S): Kaper, James B., Pasadena, MD, United States

Jarvis, Karen, Arnold, MD, United States

University of Maryland, Baltimore, Baltimore, MD, PATENT ASSIGNEE(S):

United States (U.S. corporation)

NUMBER KIND DATE \_\_\_\_\_\_ PATENT INFORMATION: US 6204004 B1 20010320 APPLICATION INFO.: US 1997-821872 19970321 19970321 (8) DOCUMENT TYPE: Utility FILE SEGMENT: Granted PRIMARY EXAMINER: Smith, Lynette R. F. ASSISTANT EXAMINER: Portner, Ginny Allen

LEGAL REPRESENTATIVE: Smith, Chalin A., Marks, David L.

NUMBER OF CLAIMS: 12

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 9 Drawing Figure(s); 7 Drawing Page(s)

970 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 10 OF 46 USPATFULL

ACCESSION NUMBER: 2001:29312 USPATFULL

TITLE: Facile method for identifying regulated promoters INVENTOR(S): LaRossa, Robert Alan, West Chester, PA, United States

Van Dyk, Tina Kangas, Wilmington, DE, United States E. I. du Pont de Nemours and Company, Wilmington, DE, PATENT ASSIGNEE(S):

United States (U.S. corporation)

NUMBER KIND DATE \_\_\_\_\_\_ • US 6194159 B1 US 1999-449083 B1 20010227 PATENT INFORMATION:

19991124 APPLICATION INFO.:

Division of Ser. No. US 1996-735545, filed on 23 Oct RELATED APPLN. INFO .:

1996, now patented, Pat. No. US 6025131

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Elliott, George C.
ASSISTANT EXAMINER: Sandals, William
NUMBER OF CLAIMS: 14

NUMBER OF CLAIMS: 14 EXEMPLARY CLAIM:

6 Drawing Figure(s); 6 Drawing Page(s) NUMBER OF DRAWINGS:

1469 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 11 OF 46 USPATFULL

2001:25436 USPATFULL ACCESSION NUMBER:

Attenuated mutants of salmonella which TITLE: constitutively express the Vi antigen

Noriega, Fernando R., Baltimore, MD, United States INVENTOR(S):

Sztein, Marcelo B., Columbia, MD, United States Levine, Myron M., Columbia, MD, United States

University of Maryland, Baltimore, Baltimore, MD, PATENT ASSIGNEE(S):

United States (U.S. corporation)

NUMBER KIND DATE \_\_\_\_\_\_

PATENT INFORMATION: US 6190669 B1 20010220 19980513 (9) US 1998-76761 APPLICATION INFO.:

DOCUMENT TYPE: Utility

FILE SEGMENT: Granted
PRIMARY EXAMINER: Duffy, Patricia A.

LEGAL REPRESENTATIVE: Sughrue, Mion, Zinn Macpeak & Seas. PLLC

NUMBER OF CLAIMS: 23

EXEMPLARY CLAIM: 17 Drawing Figure(s); 15 Drawing Page(s)

NUMBER OF DRAWINGS:

1873

LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 12 OF 46 USPATFULL L6

2001:25429 USPATFULL ACCESSION NUMBER:

Materials and methods relating to the attachment and TITLE:

display of substances on cell surfaces

Steidler, Lothar, Ghent, Belgium INVENTOR(S):

Remaut, Erik, Ghent, Belgium

Wells, Jeremy Mark, Cambridge, United Kingdom

Vlaams Interuniversitair Instituut voor Biotechnologie PATENT ASSIGNEE(S): (VIB) vzw, Zwijnaarde, Belgium (non-U.S. corporation)

KIND DATE NUMBER \_\_\_\_\_\_\_\_ US 6190662 B1 20010220 US 1998-36609 19980306 PATENT INFORMATION:

19980306 (9) APPLICATION INFO.:

Continuation of Ser. No. WO 1996-GB2195, filed on 6 Sep RELATED APPLN. INFO.:

1996

NUMBER DATE

PRIORITY INFORMATION: GB 1995-18323 19950907

DOCUMENT TYPE:

Utilitv

FILE SEGMENT:

Granted

PRIMARY EXAMINER:

Navarro, Albert LEGAL REPRESENTATIVE: Pennie & Edmonds LLP

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

24 1

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

NUMBER OF DRAWINGS:

10 Drawing Figure(s); 7 Drawing Page(s)

LINE COUNT:

964

ANSWER 13 OF 46 USPATFULL

ACCESSION NUMBER:

2000:134749 USPATFULL

TITLE:

Recombinant flagellin vaccines

INVENTOR(S):

Majarian, William R., Mt. Royal, NJ, United States Stocker, Bruce A. D., Palo Alto, CA, United States Newton, Salete M. C., Mountain View, CA, United States

PATENT ASSIGNEE(S):

American Cyanamid Company, Madison, NJ, United States

(U.S. corporation)

The Board of Trustees of the Leland Stanford Junior

University, Stanford, CA, United States (U.S.

corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 6130082 20001010 APPLICATION INFO.: US 1992-837668 19920214

(7)

RELATED APPLN. INFO.:

Continuation of Ser. No. US 1989-348430, filed on 5 May 1989, now abandoned which is a continuation-in-part of

Ser. No. US 1988-190570, filed on 5 May 1988, now

abandoned

DOCUMENT TYPE:

Utility

FILE SEGMENT:

Granted

PRIMARY EXAMINER: Mosher, Mary E.

LEGAL REPRESENTATIVE: Hamilton, Brook, Smith & Reynolds, P.C.

NUMBER OF CLAIMS:

3

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: LINE COUNT:

15 Drawing Figure(s); 17 Drawing Page(s) 2404

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 14 OF 46 USPATFULL

ACCESSION NUMBER:

2000:91741 USPATFULL

TITLE:

66 kDa antigen from Borrelia Bergstrom, Sven, Umea, Sweden

INVENTOR(S):

Barbour, Alan George, San Antonio, TX, United States

Symbicom AB, Umea, Sweden (non-U.S. corporation)

NUMBER KIND DATE \_\_\_\_\_\_

PATENT INFORMATION:

PATENT ASSIGNEE(S):

APPLICATION INFO.:

US 6090586 20000718 US 1995-468878 19950606 (8)

RELATED APPLN. INFO.:

Division of Ser. No. US 1994-262220, filed on 20 Jun 1994 which is a continuation-in-part of Ser. No. US 1993-79601, filed on 22 Jun 1993, now patented, Pat. No. US 5523089 which is a continuation of Ser. No. US 1992-924798, filed on 6 Aug 1992, now abandoned which is a continuation of Ser. No. US 1989-422881, filed on

18 Oct 1989, now abandoned

DOCUMENT TYPE:

Utility

FILE SEGMENT:

Granted

PRIMARY EXAMINER:

Housel, James C.

ASSISTANT EXAMINER:

Ryan, V.

LEGAL REPRESENTATIVE: Frommer, Esq., William S., Kowalski, Esq., Thomas

J. Frommer Lawrence & Haug LLP

NUMBER OF CLAIMS:

21

EXEMPLARY CLAIM: NUMBER OF DRAWINGS:

11 Drawing Figure(s); 5 Drawing Page(s)

LINE COUNT:

3064

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 15 OF 46 USPATFULL

ACCESSION NUMBER:

2000:77180 USPATFULL

TITLE:

Thermophilic DNA polymerases from Thermotoga

neapolitana

INVENTOR(S):

Slater, Michael R., Madison, WI, United States

Huang, Fen, Madison, WI, United States

Hartnett, James R., Fitchburg, WI, United States Bolchakova, Elena, Foster City, CA, United States Storts, Douglas R., Madison, WI, United States

Otto, Paul, Madison, WI, United States

Miller, Katharine M., Verona, WI, United States Novikov, Alexander, Foster City, CA, United States Velikodvorskaya, Galina A., Moscow, Russian Federation

PATENT ASSIGNEE(S):

Promega Corporation, Madison, WI, United States (U.S.

corporation)

NUMBER KIND DATE

PATENT INFORMATION: APPLICATION INFO.:

US 6077664 US 1996-656664 20000620

19960531 (8)

RELATED APPLN. INFO.:

Continuation-in-part of Ser. No. US 1995-484661, filed

- - - -

on 7 Jun 1995, now patented, Pat. No. US 6001645

DOCUMENT TYPE:

Utility Granted

FILE SEGMENT:

PRIMARY EXAMINER: Horlick, Kenneth R.

LEGAL REPRESENTATIVE: Melden & Carroll, LLP.

NUMBER OF CLAIMS:

48

EXEMPLARY CLAIM:

1

NUMBER OF DRAWINGS:

9 Drawing Figure(s); 6 Drawing Page(s) 7498

LINE COUNT: CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 16 OF 46 USPATFULL 1.6

ACCESSION NUMBER:

2000:67433 USPATFULL

TITLE:

66 kDa antigen from Borrelia Bergstrom, Sven, Umea, Sweden

INVENTOR(S):

Barbour, Alan George, San Antonio, TX, United States

Symbicom AB, Ulmea, Sweden (non-U.S. corporation) PATENT ASSIGNEE(S):

> KIND NUMBER DATE \_\_\_\_\_ 20000530

PATENT INFORMATION: APPLICATION INFO.: US 6068842 US 1995-471733 19950606 (8)

RELATED APPLN. INFO.:

Division of Ser. No. US 1994-262220, filed on 20 Jun 1994 which is a continuation-in-part of Ser. No. US 1993-79601, filed on 22 Jun 1993, now patented, Pat. No. US 5523089 which is a continuation of Ser. No. US 1992-924798, filed on 6 Aug 1992, now abandoned which is a continuation of Ser. No. US 1989-422881, filed on

18 Oct 1989, now abandoned

DOCUMENT TYPE:

Utility Granted

FILE SEGMENT:

Housel, James C.

PRIMARY EXAMINER: ASSISTANT EXAMINER:

Ryan, V.

LEGAL REPRESENTATIVE:

Frommer, Esq., William S., Kowalski, Esq., Thomas

J. Frommer Lawerence & Haug LLP

NUMBER OF CLAIMS:

16

EXEMPLARY CLAIM:

1

NUMBER OF DRAWINGS:

11 Drawing Figure(s); 5 Drawing Page(s)

LINE COUNT:

3138

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 17 OF 46 USPATFULL

ACCESSION NUMBER:

2000:65007 USPATFULL

TITLE:

Genes encoding insecticidal proteins

INVENTOR(S):

Warren, Gregory W., Cary, NC, United States Koziel, Michael G., Cary, NC, United States Mullins, Martha A., Raleigh, NC, United States

Nye, Gordon J., Apex, NC, United States Carr, Brian, Cary, NC, United States Desai, Nalini M., Cary, NC, United States Kostichka, Kristy, Durham, NC, United States

PATENT ASSIGNEE(S):

Novartis Finance Corporation, New York, NY, United

States (U.S. corporation)

NUMBER KIND -----

PATENT INFORMATION: APPLICATION INFO.:

US 6066783 20000523 US 1999-300529 19990427 (9)

RELATED APPLN. INFO.:

Continuation of Ser. No. US 1995-469334, filed on 6 Jun 1995 which is a division of Ser. No. US 1995-463483, filed on 5 Jun 1995, now patented, Pat. No. US 5849870 which is a continuation-in-part of Ser. No. US

1994-314594, filed on 28 Sep 1994, now abandoned which is a continuation-in-part of Ser. No. US 1994-218018,

filed on 23 Mar 1994, now abandoned which is a continuation-in-part of Ser. No. US 1993-37057, filed

on 25 Mar 1993, now abandoned

NUMBER DATE \_\_\_\_\_\_

PRIORITY INFORMATION: WO 1994-US3131 19940323

DOCUMENT TYPE: Utility

FILE SEGMENT: Granted
PRIMARY EXAMINER: Nashed, Nashaat

LEGAL REPRESENTATIVE: Meigs, J. Timothy, Pace, Gary

NUMBER OF CLAIMS: 34

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 1 Drawing Figure(s); 1 Drawing Page(s)

7082

LINE COUNT: CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 18 OF 46 USPATFULL

ACCESSION NUMBER: 2000:50546 USPATFULL

TITLE:

66 kDa antigen from Borrelia Bergstrom, Sven, Umea, Sweden

INVENTOR(S):

Barbour, Alan George, San Antonio, TX, United States

PATENT ASSIGNEE(S):

Symbicom AB, Umea, Sweden (non-U.S. corporation)

NUMBER KIND DATE \_\_\_\_\_\_ 20000425

PATENT INFORMATION: US 6054296
APPLICATION INFO.: US 1994-262220 19940620 (8)

Continuation-in-part of Ser. No. US 1993-79601, filed RELATED APPLN. INFO.: on 22 Jun 1993, now patented, Pat. No. US 5523089 which is a continuation of Ser. No. US 1992-924798, filed on 6 Aug 1992, now abandoned which is a continuation of Ser. No. US 1989-422881, filed on 18 Oct 1989, now

abandoned

NUMBER DATE

PRIORITY INFORMATION: DK 1988-5902 19881024

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Housel, James C.

PRIMARY EXAMINER: nousel, c ASSISTANT EXAMINER: Ryan, V.

LEGAL REPRESENTATIVE: Frommer, Esq., William S., Kowalski, Esq., Thomas

J. Frommer Lawrence & Haug LLP

NUMBER OF CLAIMS: 32 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 11 Drawing Figure(s); 5 Drawing Page(s) LINE COUNT: 3433

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 19 OF 46 USPATFULL

ACCESSION NUMBER: 2000:18217 USPATFULL

TITLE: Facile method for identifying regulated promoters Larossa, Robert Alan, West Chester, PA, United States Van Dyk, Tina Kangas, Wilmington, DE, United States INVENTOR(S):

PATENT ASSIGNEE(S): E. I. du Pont de Namours and Company, Wilmington, DE,

United States (U.S. corporation)

NUMBER KIND DATE -----PATENT INFORMATION: US 6025131 20000215
APPLICATION INFO.: US 1996-735545 19961023 (8)
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Brusca, John S.
ASSISTANT EXAMINER: Sandals, William
NUMBER OF CLAIMS: 11

NUMBER OF CLAIMS: 11
EXEMPLARY CLAIM: 1 6 Drawing Figure(s); 6 Drawing Page(s) 1800 NUMBER OF DRAWINGS:

LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 20 OF 46 USPATFULL

ACCESSION NUMBER: 1999:163500 USPATFULL

TITLE: Thermophilic DNA polymerases from thermotoga

neapolitana

INVENTOR(S): Slater, Michael R., Madison, WI, United States

Huang, Fen, Madison, WI, United States

Hartnett, James R., Fitchburg, WI, United States

PATENT ASSIGNEE(S): Promega Corporation, WI, United States (U.S.

corporation)

NUMBER KIND DATE -----

PATENT INFORMATION: US 6001645 19991214
APPLICATION INFO.: US 1995-484661 19950607 (8)

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Granted
Sisson, Bradley
ASSISTANT EXAMINER: Stole, Einar LEGAL REPRESENTATIVE: Medlen & Carroll, LLP

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 9 Drawing Figure(s); 6 Drawing Page(s)

LINE COUNT: 6586

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 21 OF 46 USPATFULL

ACCESSION NUMBER: 1999:151483 USPATFULL

TITLE: Stably transformed plants comprising novel insecticidal

proteins

INVENTOR(S):

Warren, Gregory W., Cary, NC, United States Koziel, Michael G., Cary, NC, United States Mullins, Martha A., Raleigh, NC, United States

Nye, Gordon J., Apex, NC, United States Carr, Brian, Cary, NC, United States Desai, Nalini M., Cary, NC, United States Kostichka, Kristy, Durham, NC, United States Duck, Nicholas B., Cary, NC, United States Estruch, Juan J., Durham, NC, United States

PATENT ASSIGNEE(S):

Novartis Finance Corporation, New York, NY, United

States (U.S. corporation)

NUMBER KIND DATE -----

PATENT INFORMATION: APPLICATION INFO.: RELATED APPLN. INFO.: US 5990383 19991123 US 1995-469334 19950606 (8)

Division of Ser. No. US 1995-463483, filed on 5 Jun 1995 which is a continuation-in-part of Ser. No. US 1994-314594, filed on 28 Sep 1994, now abandoned which is a continuation-in-part of Ser. No. US 1994-218018, filed on 23 Mar 1994, now abandoned which is a

continuation-in-part of Ser. No. US 1993-37057, filed

on 25 Mar 1993, now abandoned

DOCUMENT TYPE: FILE SEGMENT:

Utility Granted

PRIMARY EXAMINER: ASSISTANT EXAMINER:

Wax, Robert A. Nashed, Nashaat T.

LEGAL REPRESENTATIVE: NUMBER OF CLAIMS:

Pace, Gary M.

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS:

1 Drawing Figure(s); 1 Drawing Page(s)

LINE COUNT:

6008

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 22 OF 46 USPATFULL

ACCESSION NUMBER:

1999:40588 USPATFULL

TITLE:

INVENTOR(S):

Nucleotide sequences encoding pesticidal proteins Warren, Gregory W., Cary, NC, United States Koziel, Michael G., Cary, NC, United States Mullins, Martha A., Raleigh, NC, United States

Nye, Gordon J., Apex, NC, United States Carr, Brian, Cary, NC, United States Desai, Nalini M., Cary, NC, United States Kostichka, Kristy, Durham, NC, United States Estruch, Juan J., Durham, NC, United States

PATENT ASSIGNEE(S):

Novartis Finance Corporation, New York, NY, United

States (U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION:

APPLICATION INFO.: RELATED APPLN. INFO.: US 5889174 19990330 US 1995-470567 19950606 19950606 (8)

Division of Ser. No. US 1995-463483, filed on 5 Jun 1995 which is a continuation-in-part of Ser. No. US 1994-314594, filed on 28 Sep 1994, now abandoned which is a continuation-in-part of Ser. No. US 1994-218018, filed on 23 Mar 1994, now abandoned which is a

continuation-in-part of Ser. No. US 1993-37057, filed on 25 Mar 1993, now abandoned

DOCUMENT TYPE: FILE SEGMENT:

Utility Granted

PRIMARY EXAMINER: LEGAL REPRESENTATIVE:

Railey, II, Johnny F.

Pace, Gary M., Meigs, J. T.

NUMBER OF CLAIMS:

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS:

1 Drawing Figure(s); 1 Drawing Page(s)

LINE COUNT:

4921

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 23 OF 46 USPATFULL

ACCESSION NUMBER:

1999:40221 USPATFULL

TITLE:

Pesticidal strains of bacillus

INVENTOR(S):

Warren, Gregory W., Cary, NC, United States Mullins, Martha A., Raleigh, NC, United States

de Framond, Annick J., Pittsboro, NC, United States Novartis Finance Corporation, New York, NY, United

States (U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: APPLICATION INFO.:

PATENT ASSIGNEE(S):

US 5888801 19990330 US 1995-467506 19950606 (8)

RELATED APPLN. INFO.:

Division of Ser. No. US 1995-463483, filed on 5 Jun 1995 which is a continuation-in-part of Ser. No. US 1994-314594, filed on 28 Sep 1994, now abandoned which is a continuation-in-part of Ser. No. US 1994-218018, filed on 23 Mar 1994, now abandoned Continuation of Ser. No. US 1993-37057, filed on 25 Mar 1993, now

abandoned Utility

DOCUMENT TYPE: FILE SEGMENT: PRIMARY EXAMINER:

Granted Marx, Irene

LEGAL REPRESENTATIVE: Meigs, J. Timothy, Pace, Gary M.

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

12

LINE COUNT:

4908

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 24 OF 46 USPATFULL

ACCESSION NUMBER:

1999:27448 USPATFULL

TITLE:

Methods and compositions for the preparation of

recombinant Trichomonas vaginalis proteins and peptides

INVENTOR(S): PATENT ASSIGNEE(S):

Alderete, John F., San Antonio, TX, United States Board of Regents, The University of Texas System,

Austin, TX, United States (U.S. corporation)

NUMBER KIND DATE -----

PATENT INFORMATION:

US 5876985 19990302 US 1994-259966 19940614 (8)

APPLICATION INFO.: RELATED APPLN. INFO.:

Continuation of Ser. No. US 1991-692382, filed on 25

Apr 1991, now abandoned

DOCUMENT TYPE:

Utility Granted

FILE SEGMENT: PRIMARY EXAMINER:

ASSISTANT EXAMINER:

Patterson, Jr., Charles L.

LEGAL REPRESENTATIVE:

Moore, William W. Arnold, White & Durkee

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

21 1

NUMBER OF DRAWINGS:

18 Drawing Figure(s); 12 Drawing Page(s)

LINE COUNT: 2363

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 25 OF 46 USPATFULL

ACCESSION NUMBER:

1999:22191 USPATFULL

TITLE:

Pesticidal proteins and strains

INVENTOR(S):

Warren, Gregory W., Cary, NC, United States

Koziel, Michael G., Cary, NC, United States

Mullins, Martha A., Raleigh, NC, United States

Nye, Gordon J., Apex, NC, United States Carr, Brian, Cary, NC, United States Desai, Nalini M., Cary, NC, United States Kostichka, Kristy, Durham, NC, United States

Novartis Finance Corporation, New York, NY, United

States (U.S. corporation)

NUMBER KIND DATE \_\_\_\_\_ 19990216 PATENT INFORMATION:

US 5872212 US 1995-470566 APPLICATION INFO .: 19950606 (8)

Division of Ser. No. US 1995-463483, filed on 5 Jun RELATED APPLN. INFO.:

1995 which is a continuation-in-part of Ser. No. US 1994-314594, filed on 28 Sep 1994, now abandoned which is a continuation-in-part of Ser. No. US 1994-218018,

filed on 23 Mar 1994, now abandoned which is a

continuation-in-part of Ser. No. US 1993-37057, filed

on 25 Mar 1993, now abandoned

DOCUMENT TYPE: Utility Granted FILE SEGMENT:

Russel, Jeffrey E. PRIMARY EXAMINER:

LEGAL REPRESENTATIVE: Meigs, J. Timothy, Pace, Gary M.

NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1

PATENT ASSIGNEE(S):

1 Drawing Figure(s); 1 Drawing Page(s) NUMBER OF DRAWINGS:

2555 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 26 OF 46 USPATFULL

ACCESSION -NUMBER: - - 1999:15684---USPATFULL ---

Method for isolating vegetative insecticidal protein TITLE:

Warren, Gregory W., Cary, NC, United States INVENTOR(S): Koziel, Michael G., Cary, NC, United States

Mullins, Martha A., Raleigh, NC, United States

Nye, Gordon J., Apex, NC, United States Carr, Brian, Cary, NC, United States Desai, Nalini M., Cary, NC, United States Kostichka, Kristy, Durham, NC, United States Duck, Nicholas B., Cary, NC, United States Estruch, Juan J., Durham, NC, United States

Novartis Finance Corporation, New York, NY, United PATENT ASSIGNEE(S):

States (U.S. corporation)

NUMBER KIND DATE \_\_\_\_\_\_\_

US 5866326 19990202 US 1995-471046 19950606 (8) PATENT INFORMATION: APPLICATION INFO.:

Division of Ser. No. US 1995-463483, filed on 5 Jun RELATED APPLN. INFO.: 1995 which is a continuation-in-part of Ser. No. US 1994-314594, filed on 28 Sep 1994, now abandoned which

is a continuation-in-part of Ser. No. US 1994-218018, filed on 23 Mar 1994, now abandoned which is a

continuation-in-part of Ser. No. US 1993-37057, filed

on 25 Mar 1993, now abandoned

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Wortman, Donna C.

Meigs, J. Timothy, Pace, Gary M. LEGAL REPRESENTATIVE:

NUMBER OF CLAIMS: 20 EXEMPLARY CLAIM: 1 4930 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 27 OF 46 USPATFULL L6

1999:1223 USPATFULL ACCESSION NUMBER:

Avirulent microbes and uses therefor TITLE:

Curtiss, III, Roy, St. Louis, MO, United States INVENTOR(S):

Kelly, Sandra M., St. Louis, MO, United States

Washington University, St. Louis, MO, United States PATENT ASSIGNEE(S):

(U.S. corporation)

KIND DATE NUMBER US 5855880 US 1996-596732 19990105 PATENT INFORMATION:

19960205 (8) APPLICATION INFO.:

Division of Ser. No. US 1994-209542, filed on 10 Mar RELATED APPLN. INFO.: 1994 which is a continuation-in-part of Ser. No. US 1990-612001, filed on 9 Nov 1990, now abandoned which is a continuation-in-part of Ser. No. US 1988-200934,

filed on 1 Jun 1988, now abandoned which is a

continuation-in-part of Ser. No. US 1987-58360, filed on 4 Jun 1987, now abandoned , said Ser. No. US

-200934 which is a continuation-in-part of Ser. No. US 1988-251304, filed on 3 Oct 1988, now abandoned which is a continuation-in-part of Ser. No. US 1987-106072,

filed on 7 Oct 1987, now abandoned

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Scheiner, Laurie

LEGAL REPRESENTATIVE: Howell & Haferkamp, L.C.

9 NUMBER OF CLAIMS: EXEMPLARY CLAIM:

6 Drawing Figure(s); 6 Drawing Page(s) NUMBER OF DRAWINGS:

3409 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 28 OF 46 USPATFULL

1999:1222 USPATFULL ACCESSION NUMBER:

Avirulent microbes and uses therefor TITLE:

Curtiss III, Roy, St. Louis, MO, United States INVENTOR(S): Washington University, St. Louis, MO, United States PATENT ASSIGNEE(S):

(U.S. corporation)

KIND DATE NUMBER \_\_\_\_\_\_ US 5855879 19990105 US 1994-209542 19940310 (8) PATENT INFORMATION: APPLICATION INFO.:

Division of Ser. No. US 1991-785748, filed on 7 Nov RELATED APPLN. INFO.: 1991, now patented, Pat. No. US 5294441 which is a

continuation-in-part of Ser. No. US 1990-612001, filed

on 9 Nov 1990, now abandoned which is a

continuation-in-part of Ser. No. US 1988-200934, filed

on 1 Jun 1988, now abandoned which is a

continuation-in-part of Ser. No. US 1987-58360, filed

on 4 Jun 1987, now abandoned , said Ser. No. US

-612001 which is a continuation-in-part of Ser. No. US 1988-251304, filed on 3 Oct 1988, now abandoned which is a continuation-in-part of Ser. No. US 1987-106072,

filed on 7 Oct 1987, now abandoned

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

Scheiner, Laurie PRIMARY EXAMINER:

LEGAL REPRESENTATIVE: Howell & Haferkamp, L.C.

9 NUMBER OF CLAIMS: EXEMPLARY CLAIM:

6 Drawing Figure(s); 6 Drawing Page(s) NUMBER OF DRAWINGS:

LINE COUNT:

3399

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 29 OF 46 USPATFULL

ACCESSION NUMBER:

1998:115424 USPATFULL

TITLE .

Vaccines containing bacteria attenuated by mutations in

two genes of the aromatic amino acid biosynthetic

pathway

INVENTOR(S):

Dougan, Gordon, Beckenham, United Kingdom

Chatfield, Steven Neville, Beckenham, United Kingdom Hormaeche, Carlos Estenio, Cambridge, United Kingdom

PATENT ASSIGNEE(S):

. Glaxo Wellcome, Inc., Research Triangle Park, NC,

United States (U.S. corporation)

NUMBER KIND DATE -----US 5811105 PATENT INFORMATION: 19980922 APPLICATION INFO.: US 4492978 19950524 (8)

DISCLAIMER DATE: RELATED APPLN. INFO.: 20180623

Division of Ser. No. 135436, filed on 13 Oct 1993, now abandoned which is a continuation of Ser. No. 979460, filed on 20 Nov 1992, now abandoned which is a continuation of Ser. No. 857092, filed on 20 Mar 1992, now abandoned which is a continuation of Ser. No. 642138, filed on 15 Jan 1991, now abandoned which is a continuation of Ser. No. 399539, filed on 22 Aug

1989, now abandoned

NUMBER DATE

PRIORITY INFORMATION: GB 8730037 19871223

DOCUMENT TYPE:

Utilitv Granted

FILE SEGMENT: PRIMARY EXAMINER:

Minnifield, Nita

LEGAL REPRESENTATIVE: Nixon & Vanderhye, P.C.

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

23

1

NUMBER OF DRAWINGS:

1 Drawing Figure(s); 1 Drawing Page(s)

LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 30 OF 46 USPATFULL

ACCESSION NUMBER:

1998:157470 USPATFULL

TITLE:

Pesticidal proteins and strains

INVENTOR(S):

Warren, Gregory W., Cary, NC, United States Koziel, Michael G., Cary, NC, United States Mullins, Martha A., Raleigh, NC, United States

Nye, Gordon J., Apex, NC, United States Carr, Brian, Cary, NC, United States Desai, Nalini M., Cary, NC, United States Kostichka, Kristy, Durham, NC, United States Duck, Nicholas B., Cary, NC, United States Estruch, Juan J., Durham, NC, United States

PATENT ASSIGNEE(S):

Novartis Finance Corporation, New York, NY, United

States (U.S. corporation)

NUMBER KIND DATE -----

PATENT INFORMATION:

APPLICATION INFO.:

US 5849870 19981215 US 1995-463483 19950605 (8)

RELATED APPLN. INFO.:

Continuation-in-part of Ser. No. US 1994-314594, filed

on 28 Sep 1994, now abandoned which is a

continuation-in-part of Ser. No. US 1994-218018, filed

on 23 Mar 1994, now abandoned which is a

continuation-in-part of Ser. No. US 1993-37057, filed

on 19 Mar 1993, now abandoned

DOCUMENT TYPE: FILE SEGMENT:

Utility Granted

PRIMARY EXAMINER:

Wax, Robert A. Nashed, Nashaat T.

ASSISTANT EXAMINER: LEGAL REPRESENTATIVE:

Pace, Ph.D., Gary M.

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS:

1 Drawing Figure(s); 1 Drawing Page(s)

LINE COUNT:

4928

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 31 OF 46 USPATFULL

ACCESSION NUMBER:

1998:147579 USPATFULL

TITLE:

Pesticidal proteins and strains

INVENTOR(S):

Warren, Gregory W., Cary, NC, United States Koziel, Michael G., Cary, NC, United States Mullins, Martha A., Raleigh, NC, United States

Carr, Brian, Cary, NC, United States Desai, Nalini M., Cary, NC, United States Kostichka, Kristy, Durham, NC, United States

PATENT ASSIGNEE(S):

Novartis Finance Corporation, New York, NY, United

States (U.S. corporation)

NUMBER	KIND	DATE

PATENT INFORMATION: US 5840868 19981124 APPLICATION INFO.: US 1995-471044 19950606 (8)

RELATED APPLN. INFO.: Division of Ser. No. US 1995-463483, filed on 5 Jun 1995 which is a continuation-in-part of Ser. No. US 1994-314594, filed on 28 Sep 1994, now abandoned which is a continuation-in-part of Ser. No. US 1994-218018,

filed on 23 Mar 1994, now abandoned which is a continuation-in-part of Ser. No. US 1993-37057, filed

on 25 Mar 1993, now abandoned

DOCUMENT TYPE:

Utility Granted

FILE SEGMENT: PRIMARY EXAMINER: ASSISTANT EXAMINER:

Degen, Nancy Wang, Andrew LEGAL REPRESENTATIVE: Pace, Gary M.

NUMBER OF CLAIMS:

10

EXEMPLARY CLAIM:

1

NUMBER OF DRAWINGS:

1 Drawing Figure(s); 1 Drawing Page(s)

LINE COUNT:

4896

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 32 OF 46 USPATFULL

ACCESSION NUMBER:

1998:72719 USPATFULL

TITLE:

Auxiliary proteins for enhancing the insecticidal

activity of pesticidal proteins

INVENTOR(S):

Warren, Gregory W., Cary, NC, United States Koziel, Michael G., Cary, NC, United States Mullins, Martha A., Raleigh, NC, United States

Nye, Gordon J., Apex, NC, United States Carr, Brian, Cary, NC, United States Desai, Nalini M., Cary, NC, United States Kostichka, Kristy, Durham, NC, United States Duck, Nicholas B., Cary, NC, United States Estruch, Juan J., Durham, NC, United States

PATENT ASSIGNEE(S):

Novartis Corporation, United States (U.S. corporation)

KIND DATE NUMBER \_\_\_\_\_ \_\_\_ PATENT INFORMATION: US 5770696 APPLICATION INFO.: US 1995-4710

19980623 US 1995-471033 19950606 (8)

RELATED APPLN. INFO.:

Division of Ser. No. US 1995-463483, filed on 5 Jun 1995 which is a continuation-in-part of Ser. No. US

1994-314594, filed on 28 Sep 1994 which is a

continuation-in-part of Ser. No. US 1994-218018, filed

on 23 Mar 1994, now abandoned which is a

continuation-in-part of Ser. No. US 1993-37057, filed

on 25 Mar 1993, now abandoned

DOCUMENT TYPE: FILE SEGMENT:

Utility Granted

PRIMARY EXAMINER: ASSISTANT EXAMINER: Wax, Robert A. Nashed, Nashaat T.

LEGAL REPRESENTATIVE: Pace, Gary M.

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS:

1 Drawing Figure(s); 1 Drawing Page(s)

LINE COUNT:

3023

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 33 OF 46 USPATFULL

ACCESSION NUMBER:

1998:72257 USPATFULL

TITLE:

Vaccines containing salmonella bacteria

attenuated by mutations in two genes of the aromatic

amino acid biosynthetic pathway

INVENTOR(S):

Dougan, Gordon, Beckenham, United Kingdom

Chatfield, Steven Neville, Beckenham, United Kingdom Hormaeche, Carlos Estenio, Cambridge, United Kingdom Glaxo Wellcome, Inc., Research Triangle Park, NC,

PATENT ASSIGNEE(S):

United States (U.S. corporation)

NUMBER KIND DATE -----

PATENT INFORMATION:

US 5770214 19980623 US 1995-484314 19950607 (8)

APPLICATION INFO .: RELATED APPLN. INFO.: Continuation of Ser. No. US 1993-135436, filed on 13

Oct 1993, now abandoned which is a continuation of Ser. No. US 1992-979460, filed on 20 Nov 1992, now abandoned

which is a continuation of Ser. No. US 1992-857092, filed on 20 Mar 1992, now abandoned which is a continuation of Ser. No. US 1991-642138, filed on 15

Jan 1991, now abandoned which is a continuation of Ser. No. US 1989-399539, filed on 22 Aug 1989, now abandoned

NUMBER DATE ------

PRIORITY INFORMATION:

GB 1987-30037 19871223

DOCUMENT TYPE:

Utility Granted

FILE SEGMENT:

Minnifield, Nita

PRIMARY EXAMINER:

LEGAL REPRESENTATIVE: Nixon & Vanderhye, P.C.,

NUMBER OF CLAIMS: 12

1

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS:

1 Drawing Figure(s); 1 Drawing Page(s)

LINE COUNT:

599

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 34 OF 46 USPATFULL

ACCESSION NUMBER:

97:123350 USPATFULL

TITLE:

INVENTOR(S):

Nucleic acid encoding helicobacter pylori enolase Thompson, Stuart A., Joelton, TN, United States Blaser, Martin J., Nashville, TN, United States Vanderbilt University, Nashville, TN, United States

PATENT ASSIGNEE(S):

(U.S. corporation)

NUMBER KIND DATE -----

US 5703219 19971230 US 1995-446920 19950522 (8) PATENT INFORMATION:

APPLICATION INFO .: Continuation-in-part of Ser. No. US 1994-215928, filed

RELATED APPLN. INFO .: on 21 Mar 1994, now patented, Pat. No. US 5434253,

issued on 18 Jul 1995

Utility DOCUMENT TYPE: Granted FILE SEGMENT:

Wax, Robert A. PRIMARY EXAMINER: Lau, Kawai ASSISTANT EXAMINER:

LEGAL REPRESENTATIVE: Needle & Rosenberg, PC

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

6 Drawing Figure(s); 6 Drawing Page(s) NUMBER OF DRAWINGS:

LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 35 OF 46 USPATFULL

97:70928 USPATFULL ACCESSION NUMBER:

Recombinant avirulent salmonella TITLE:

antifertility vaccines Curtiss, III, Roy, St. Louis, MO, United States INVENTOR(S):

Tung, Kenneth S. K., Charlottsville, VA, United States

Washington University, St. Louis, MO, United States PATENT ASSIGNEE(S):

(U.S. corporation)

NUMBER KIND DATE 

US 5656488 19970812 US 1994-222182 19940401 (8) PATENT INFORMATION:

APPLICATION INFO.: RELATED APPLN. INFO.: Continuation of Ser. No. US 1991-791347, filed on 18

Nov 1991, now abandoned which is a continuation-in-part

of Ser. No. US 1990-615720, filed on 21 Nov 1990, now

abandoned Utility DOCUMENT TYPE: FILE SEGMENT: Granted

PRIMARY EXAMINER: Cunningham, Thomas M. LEGAL REPRESENTATIVE: Howell & Haferkamp, L.C.

NUMBER OF CLAIMS: 50 EXEMPLARY CLAIM:

23 Drawing Figure(s); 20 Drawing Page(s) NUMBER OF DRAWINGS:

3112 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 36 OF 46 USPATFULL

97:47098 USPATFULL ACCESSION NUMBER:

Method of detecting ligand interactions TITLE: McCoy, John M., Reading, MA, United States INVENTOR(S): Lu, Zhijian, Arlington, MA, United States

Genetics Institute, Inc., Cambridge, MA, United States PATENT ASSIGNEE(S):

(U.S. corporation)

NUMBER KIND DATE -----

US 5635182 19970603 PATENT INFORMATION: US 1994-260582 19940616 (8) APPLICATION INFO.:

DISCLAIMER DATE: 20101214 Utility DOCUMENT TYPE: FILE SEGMENT: Granted

PRIMARY EXAMINER: Wax, Robert A.
ASSISTANT EXAMINER: Bugalsky, Gabriele E.

LEGAL REPRESENTATIVE: Meinert, M. C.

NUMBER OF CLAIMS:

28

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS:

7 Drawing Figure(s); 7 Drawing Page(s)

LINE COUNT:

1935

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 37 OF 46 CAPLUS COPYRIGHT 2002 ACS 1.6

1996:629955 CAPLUS

ACCESSION NUMBER: DOCUMENT NUMBER:

125:296910

TITLE:

Molecular genetic analysis of motility mutants (motA,

motB) in bacteria

AUTHOR(S):

Yamaguchi, Shigeru; Togashi, Fumiko; Yu, Richard C.;

Macnab, Robert M.

CORPORATE SOURCE:

Fac. Commer., Meiji Univ., Tokyo, 168, Japan

SOURCE:

Meiji Daigaku Kagaku Gijutsu Kenkyusho Kiyo (1996),

Volume Date 1995, 34(6), 87-107 CODEN: MDKKDY; ISSN: 0386-4944

DOCUMENT TYPE:

Journal

LANGUAGE:

Japanese

USPATFULL ANSWER 38 OF 46

ACCESSION NUMBER:

95:11759 USPATFULL

TITLE:

Avirulent microbes and uses therefor:

Salmonella typhi

INVENTOR(S):

Curtiss, III, Roy, St. Louis, MO, United States Kelly, Sandra M., St. Louis, MO, United States

PATENT ASSIGNEE(S):

Washington University, St. Louis, MO, United States

(U.S. corporation)

NUMBER	KIND	DATE

PATENT INFORMATION:

US 5387744

19950207 19930707

(8)

APPLICATION INFO.: DISCLAIMER DATE:

US 1993-88394 20110315

RELATED APPLN. INFO.:

Continuation of Ser. No. US 1992-975892, filed on 13 Nov 1992, now abandoned which is a continuation of Ser.

No. US 1990-612001, filed on 9 Nov 1990, now abandoned

which is a continuation-in-part of Ser. No. US

1988-200934, filed on 1 Jun 1988, now abandoned which is a continuation-in-part of Ser. No. US 1987-58360, filed on 4 Jun 1987, now abandoned, said Ser. No. US -612001 which is a continuation-in-part of Ser. No. US 1988-251304, filed on 3 Oct 1988, now abandoned which is a continuation-in-part of Ser. No. US 1987-106072,

filed on 7 Oct 1987, now abandoned

DOCUMENT TYPE:

Utility

FILE SEGMENT:

Granted

PRIMARY EXAMINER:

Low, Christopher S. F.

LEGAL REPRESENTATIVE:

Rogers, Howell & Haferkamp

NUMBER OF CLAIMS:

11

EXEMPLARY CLAIM: NUMBER OF DRAWINGS:

4 Drawing Figure(s); 4 Drawing Page(s)

LINE COUNT:

2718

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 39 OF 46 USPATFULL

ACCESSION NUMBER:

PATENT ASSIGNEE(S):

94:22076 USPATFULL

TITLE:

Avirulent microbes and uses therefor:

salmonella typhi

INVENTOR(S):

Curtiss, III, Roy, St. Louis, MO, United States Washington University, St. Louis, MO, United States

(U.S. corporation)

NUMBER KIND DATE

US 5294441 19940315 PATENT INFORMATION: US 1991-785748 19911107 (7) APPLICATION INFO .:

Continuation-in-part of Ser. No. US 1990-612001, filed RELATED APPLN. INFO.:

on 9 Nov 1990, now abandoned which is a

continuation-in-part of Ser. No. US 1988-200934, filed

on 1 Jun 1988, now abandoned which is a

continuation-in-part of Ser. No. US 1987-58360, filed on 4 Jun 1987, now abandoned , said Ser. No.

which is a continuation-in-part of Ser. No. US

1988-251304, filed on 3 Oct 1988, now abandoned which is a continuation-in-part of Ser. No. US 1987-106072,

filed on 7 Oct 1987, now abandoned

Utility DOCUMENT TYPE: Granted FILE SEGMENT:

Low, Christopher S. F. PRIMARY EXAMINER: LEGAL REPRESENTATIVE: Rogers, Howell & Haferkamp

12 NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1

6 Drawing Figure(s); 6 Drawing Page(s) NUMBER OF DRAWINGS:

3370 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 40 OF 46 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC. DUPLICATE

1

CORPORATE SOURCE:

PATENT ASSIGNEE(S):

1994:226104 BIOSIS ACCESSION NUMBER: PREV199497239104 DOCUMENT NUMBER:

Hypervariable region IV of Salmonella gene fliC-d TITLE:

encodes a dominant surface epitope and a stabilizing factor

for functional flagella.

He, Xiao-Song; Rivkina, Marianne; Stocker, Bruce A. D.; AUTHOR (S): \_\_ \_

Robinson, William S. (1)

(1) Dep. Med., Stanford Univ. Sch. Med., Stanford, CA 94305

Journal of Bacteriology, (1994) Vol. 176, No. 8, pp. SOURCE:

2406-2414.

ISSN: 0021-9193.

USA

DOCUMENT TYPE: Article LANGUAGE: English

ANSWER 41 OF 46 USPATFULL

ACCESSION NUMBER: 93:78691 USPATFULL

Virulence associated proteins in Borrelia burgdorferi TITLE:

Norris, Steven J., Houston, TX, United States INVENTOR(S):

Barbour, Alan G., San Antonio, TX, United States Board of Regents, The University of Texas System,

Austin, TX, United States (U.S. corporation)

KIND DATE NUMBER -----

US 5246844 19930921 PATENT INFORMATION: 19911022 (7) US 1991-781355 APPLICATION INFO.:

DOCUMENT TYPE: Utility Granted FILE SEGMENT:

PRIMARY EXAMINER: Nucker, Christine M. ASSISTANT EXAMINER: Dubrule, Chris

LEGAL REPRESENTATIVE: Arnold, White & Durkee

NUMBER OF CLAIMS: 22 EXEMPLARY CLAIM:

10 Drawing Figure(s); 14 Drawing Page(s) NUMBER OF DRAWINGS:

LINE COUNT: 1705

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

MEDLINE 1.6 ANSWER 42 OF 46

91217072 MEDLINE ACCESSION NUMBER:

91217072 PubMed ID: 1902474 DOCUMENT NUMBER:

Roles of the highly conserved aspartate and lysine residues TITLE:

in the response regulator of bacterial chemotaxis.

Lukat G S; Lee B H; Mottonen J M; Stock A M; Stock J B AUTHOR:

CORPORATE SOURCE: Department of Molecular Biology, Princeton University, New

Jersey 08544-1014.

CONTRACT NUMBER: A120980 (NIAID)

JOURNAL OF BIOLOGICAL CHEMISTRY, (1991 May 5) 266 (13) SOURCE:

8348-54.

Journal code: HIV; 2985121R. ISSN: 0021-9258.

PUB. COUNTRY: United States

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199106

ENTRY DATE: Entered STN: 19910623

> Last Updated on STN: 19910623 Entered Medline: 19910605

1.6 ANSWER 43 OF 46 MEDLINE

91251772 MEDLINE ACCESSION NUMBER:

DOCUMENT NUMBER: 91251772 PubMed ID: 1710314

Segment IV of a Salmonella flagellin gene TITLE:

specifies flagellar antigen epitopes.

Newton S M; Wasley R D; Wilson A; Rosenberg L T; Miller J AUTHOR:

F; Stocker B A

CORPORATE SOURCE: Departamento de Microbiologia, Universidad de Sao Paulo,

Sao Paulo, Brazil.

AI-18872 (NIAID) AI-27722 (NIAID)

MOLECULAR MICROBIOLOGY, (1991 Feb) 5 (2) 419-25. SOURCE:

Journal code: MOM; 8712028. ISSN: 0950-382X.

ENGLAND: United Kingdom PUB. COUNTRY:

Journal; Article; (JOURNAL ARTICLE)

English LANGUAGE:

Priority Journals FILE SEGMENT:

199107 ENTRY MONTH:

CONTRACT NUMBER:

Entered STN: 19910728 ENTRY DATE:

Last Updated on STN: 19960129 Entered Medline: 19910705

CAPLUS COPYRIGHT 2002 ACS DUPLICATE 2 ANSWER 44 OF 46 1.6

1991:528699 CAPLUS ACCESSION NUMBER:

115:128699 DOCUMENT NUMBER:

Point mutations that lock Salmonella TITLE:

typhimurium flagellar filaments in the straight

right-handed and left-handed forms and their relation

to filament superhelicity

Hyman, Hana C.; Trachtenberg, Shlomo AUTHOR(S):

Hadassah Med. Sch., Hebrew Univ., Jerusalem, 91010, CORPORATE SOURCE:

Israel

J. Mol. Biol. (1991), 220(1), 79-88 SOURCE:

CODEN: JMOBAK; ISSN: 0022-2836

DOCUMENT TYPE: Journal LANGUAGE: English

ANSWER 45 OF 46 USPATFULL L6

ACCESSION NUMBER: 75:64202 USPATFULL

Antibiotic XK-49-1-B-2 and process for production TITLE:

thereof using streptosporangium vlolaceochromogenes

Nara, Takashi, Tokyo, Japan INVENTOR(S):

Takasawa, Seigo, Kawasaki, Japan

Okachi, Ryo, Machida, Japan Kawamoto, Isao, Machida, Japan Kohagura, Masahiro, Shizuoka, Japan Takahashi, Itaru, Shizuoka, Japan

PATENT ASSIGNEE(S):

Kyowa Hakko Kogyo Co., Ltd., Tokyo, Japan (non-U.S.

corporation)

NUMBER KIND DATE \_\_\_\_\_ US 3922343 19751125 US 1973-393829 19730904 (5) PATENT INFORMATION: APPLICATION INFO.:

NUMBER DATE JP 1972-89085 19720907 PRIORITY INFORMATION:

DOCUMENT TYPE:

Utility FILE SEGMENT: Granted PRIMARY EXAMINER: Rosen, Sam
ASSISTANT EXAMINER: Stephens, Daren M.
LEGAL REPRESENTATIVE: Fitzpatrick, Cella, Harper & Scinto

NUMBER OF CLAIMS:

EXEMPLARY CLAIM: NUMBER OF DRAWINGS:

1,4 2 Drawing Figure(s); 2 Drawing Page(s)

LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 46 OF 46 USPATFULL

ACCESSION NUMBER: 75:15410 USPATFULL

TITLE:

Antibiotics platomycin A and B and process for

production thereof

INVENTOR(S): Nara, Takashi, Tokyo, Japan

Takasawa, Seigo, Kawasaki, Japan

Okachi, Ryo, Tokyo, Japan Kawamoto, Isao, Tokyo, Japan Sato, Seiji, Tokyo, Japan

Yamamoto, Mitsuyoshi, Tokyo, Japan Sato, Tomoyasu, Tokyo, Japan

Morikawa, Atsuko, Tokyo, Japan

PATENT ASSIGNEE(S):

Kyowa Hakko Kogyo Co., Ltd., Tokyo, Japan (non-U.S.

corporation)

NUMBER KIND DATE -----PATENT INFORMATION: US 3873692 19750325 APPLICATION INFO.: US 1974-441838 19740212 (5)

NUMBER DATE \_\_\_\_\_\_ JP 1973-20624 19730222

PRIORITY INFORMATION: DOCUMENT TYPE:

Utility

FILE SEGMENT: Granted
PRIMARY EXAMINER: Goldberg, Jerome D.

NUMBER OF CLAIMS: 6

LEGAL REPRESENTATIVE: Fitzpatrick, Cella, Harper & Scinto

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 4 Drawing Figure(s); 3 Drawing Page(s)

LINE COUNT: 634

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

DN BA62:2204

- TI CONTROLLED FIELD TRIAL OF A TYPHOID VACCINE PREPARED WITH A NONMOTILE MUTANT OF SALMONELLA-TYPHI TY-2.
- AU WAHDAN M H; SIPPEL J E; MIKHAIL I A; RAHKA A E; ANDERSON E S; SPARKS H A; CVJETANOVIC B
- SO BULL W H O, (1975 (RECD 1976)) 52 (1), 69-73. CODEN: BWHOA6. ISSN: 0366-4996.

the property of

- FS BA; OLD
- LA Unavailable
- L8 ANSWER 5 OF 5 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
- AN 1972:10919 BIOSIS
- DN BR08:10919
- TI PROPOSED USE OF A **NONMOTILE** VARIANT OF **SALMONELLA-TYPHI** FOR THE PREPARATION OF **VACCINE** AGAINST TYPHOID FEVER.
- AU ANDERSON E S
- SO REGAMEY, R.H., M. STANIC AND J. UNGER (EDITED BY). SYMPOSIA SERIES IN IMMUNOBIOLOGICAL STANDARDIZATION, VOL. 15. INTERNATIONAL SYMPOSIUM ON ENTEROBACTERIAL VACCINES. SYMPOSIUM. VIII+296P. ILLUS. S. KARGER: BASEL, SWITZERLAND (DIST. IN U.S.A. BY ALBERT J. PHIEBIG, WHITE PLAINS, N.Y.). (1971) 79-86.
- FS BR; OLD
- LA Unavailable

The present invention is directed to recombinant genes and their encoded proteins which are recombinant flagellin fusion proteins. Such fusion proteins comprise amino acid sequences specifying an epitope encoded by a flagellin structural gene and an epitope of a heterologous organism which is immunogenic upon introduction of the fusion protein into a vertebrate host. The recombinant genes and proteins of the present invention can be used in vaccine formulations, to provide protection against infection by the heterologous organism, or to provide protection against conditions or disorders caused by an antigen of the organism. In a specific embodiment, attenuated invasive bacteria expressing the recombinant flagellin genes of the invention can be used in live vaccine formulations. The invention is illustrated by way of examples in which epitopes of malaria circumsporozoite antigens, the B subunit of Cholera toxin, surface and presurface antigens of Hepatitis B. VP7 polypeptide of rotavirus, envelope glycoprotein of HIV, and M protein of Streptococcus, are expressed in recombinant flagellin fusion proteins which assemble into functional flagella, and which provoke an immune response directed against the heterologous epitope, in a vertebrate host. 2000:134749 USPATFULL Recombinant flagellin vaccines Majarian, William R., Mt. Royal, NJ, United States Stocker, Bruce A. D., Palo Alto, CA, United States Newton, Salete M. C., Mountain View, CA, United States American Cyanamid Company, Madison, NJ, United States (U.S. corporation) The Board of Trustees of the Leland Stanford Junior University, Stanford, CA, United States (U.S. corporation) US 6130082 20001010 19920214 (7) US 1992-837668 Continuation of Ser. No. US 1989-348430, filed on 5 May 1989, now abandoned which is a continuation-in-part of Ser. No. US 1988-190570, filed on 5 May 1988, now abandoned Utility Granted EXNAM Primary Examiner: Mosher, Mary E. Hamilton, Brook, Smith & Reynolds, P.C. Number of Claims: 3 Exemplary Claim: 1 15 Drawing Figure(s); 17 Drawing Page(s) LN.CNT 2404 CAS INDEXING IS AVAILABLE FOR THIS PATENT. ANSWER 2 OF 5 USPATFULL methods for use of the microorganisms as vaccines and in diagnostic assays. Although a preferred embodiment of the invention is directed to Borrelia burgdorferi, the present invention encompasses

## L8

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AB This invention relates to flagella-less strains of Borrelia and to novel flagella-less strains of other microorganisms belonging to the genus Borrelia. Accordingly, with the aid of the disclosure, flagella-less mutants of other Borrelia species, e.g., B. coriacei, which causes epidemic bovine abortion, B. anserina, which causes avian spirochetosis, and B. recurrentis and other Borrelia species causative of relapsing fever, such as Borrelia hermsii, Borrelia turicatae, Borrelia duttoni, Borrelia persica, and Borrelia hispanica, can be prepared and used in accordance with the present invention and are within the scope of the invention. Therefore, a preferred embodiment comprises a composition of matter comprising a substantially pure preparation of a strain of a flagella-less microorganism belonging to the genus Borrelia.

- 95:66995 USPATFULL ΑN
- TΙ Flagella-less borrelia
- IN Barbour, Alan G., San Antonio, TX, United States Bundoc, Virgilio, San Antonio, TX, United States
- PA University of Texas System, Austin, TX, United States (U.S. corporation)
- PΙ US 5436000 19950725

US 1991-641143 ΑI 19910111 (7) DT Utility FS Granted EXNAM Primary Examiner: Sidberry, Hazel F. Arnold, White & Durkee LREP CLMN Number of Claims: 1 ECL Exemplary Claim: 1 DRWN 23 Drawing Figure(s); 14 Drawing Page(s)

L8ANSWER 3 OF 5 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC. DUPLICATE 1 A total of 21 cases of laboratory-acquired typhoid fever associated with AB teaching and proficiency tests occurred in the USA during a 33-mo. period, prompting a search for less virulent strains of S. typhi which would be suitable for teaching purposes. Two strains were evaluated which are reported to have reduced virulence for humans if grown under special laboratory conditions (in the presence of 0.1% D-galactose) and has been evaluated as a candidate for use as a live, oral vaccine. Strain H901 was originally isolated in the USSR in 1981. It has not been tested in humans, but its nonmotile variant, 0901, has been found to be somewhat less virulent for humans; however, it can cause infection with doses of 107 organisms. In teaching exercises, all strains should be treated as though they are fully virulent. Ty21a and H901 were satisfactory, but not ideal, for teaching purposes. Biochemically, they could be identified by conventional tests and by commercially available diagnostic systems, although Ty21 was H2S negative. Serologically, both strains posed problems. Both Ty21a and H901 were Vi antigen negative, and Ty21a was rough and grew poorly. Both strains were susceptible to antibiotics, including chloramphenicol, ampicillin and trimethoprim-sulfamethoxazole. When Ty21a and H901 were mixed with Escherichia coli and plated, Hektoen and Salmonella-Shigella agars were most useful for their recovery. The appearance of Ty21a and H901 on differential plating media was typical, although Ty21a had smaller colonies. The plating efficiency on MacConkey agar for Ty21a was 0.6 compared with 1 for H901. Neither strain can be recommended unequivocally for teaching purposes; instead, the advantages and disadvanges of each must be considered. Both strains have been deposited in the American Type Culture Collection (Ty21a = ATCC 33459 = CDC 2861-79; H901 = ATCC 33458 = CDC 2862-79).

AN 1983:177053 BIOSIS

DN BA75:27053

LN.CNT 1300

TI EVALUATION OF 2 **SALMONELLA-TYPHI** STRAINS WITH REDUCED VIRULENCE FOR USE IN TEACHING AND PROFICIENCY TESTING.

AU HICKMAN F W; RHODEN D L; ESAIAS A O; BARON L S; BRENNER D J; FARMER J J

CS ENTERIC SECTION, CENT. INFECTIOUS DISEASES, CENT. DISEASE CONTROL, ATLANTA, GEORGIA 30333.

SO J CLIN MICROBIOL, (1982) 15 (6), 1085-1091. CODEN: JCMIDW. ISSN: 0095-1137.

FS BA; OLD

LA English

ANSWER 4 OF 5 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 2
AB A controlled field trial was performed in Egypt to evaluate a whole cell typhoid vaccine prepared with a nonmotile mutant of S. typhi Ty2 (TNM1) devoid of flagellar antigen. This vaccine did not elicit an H antibody response, but significant Vi and O agglutinin responses were observed. There were 34 typhoid cases among 21,063 6-7-yr-old children who received the TNM1 vaccine, and 44 cases among 21,017 children in the control group who received tetanus toxoid. TNM1 vaccine probably does not provide protection against typhoid fever. H antigen may be an important component of an effective vaccine.

AN 1976:172204 BIOSIS